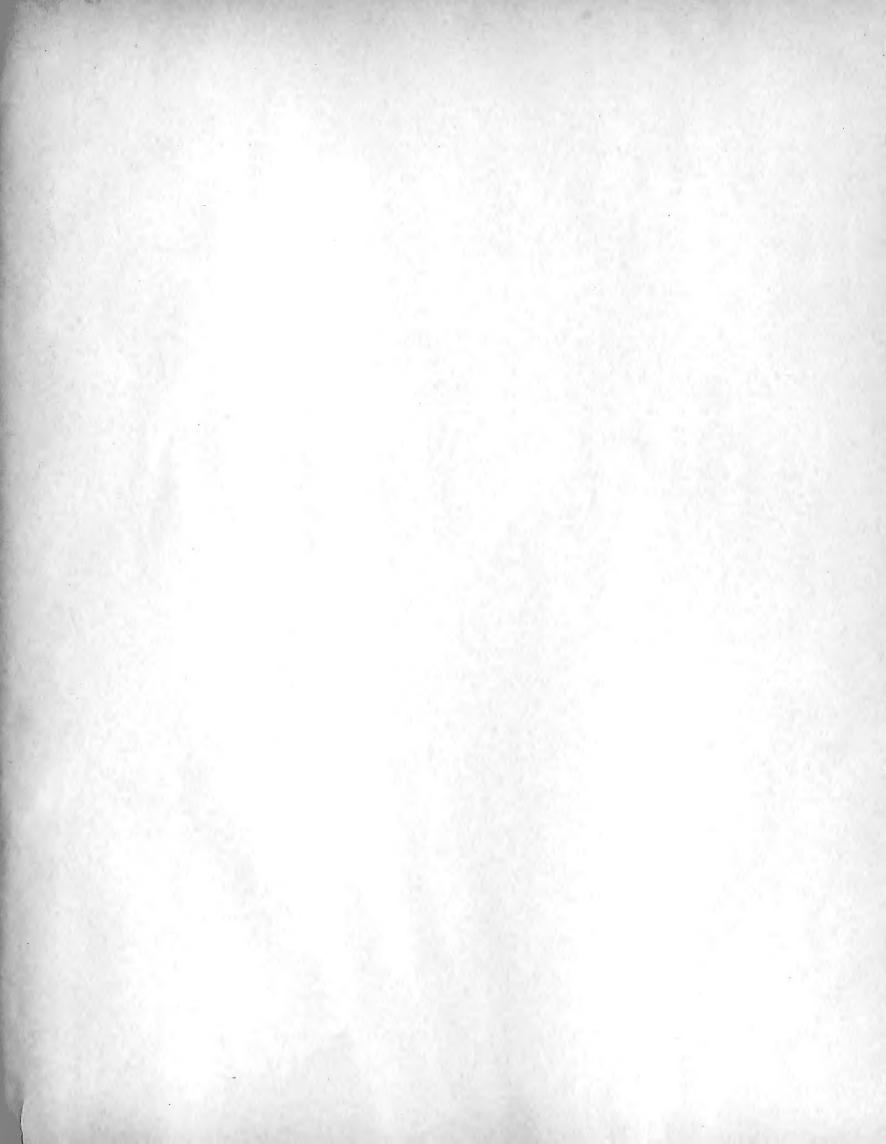
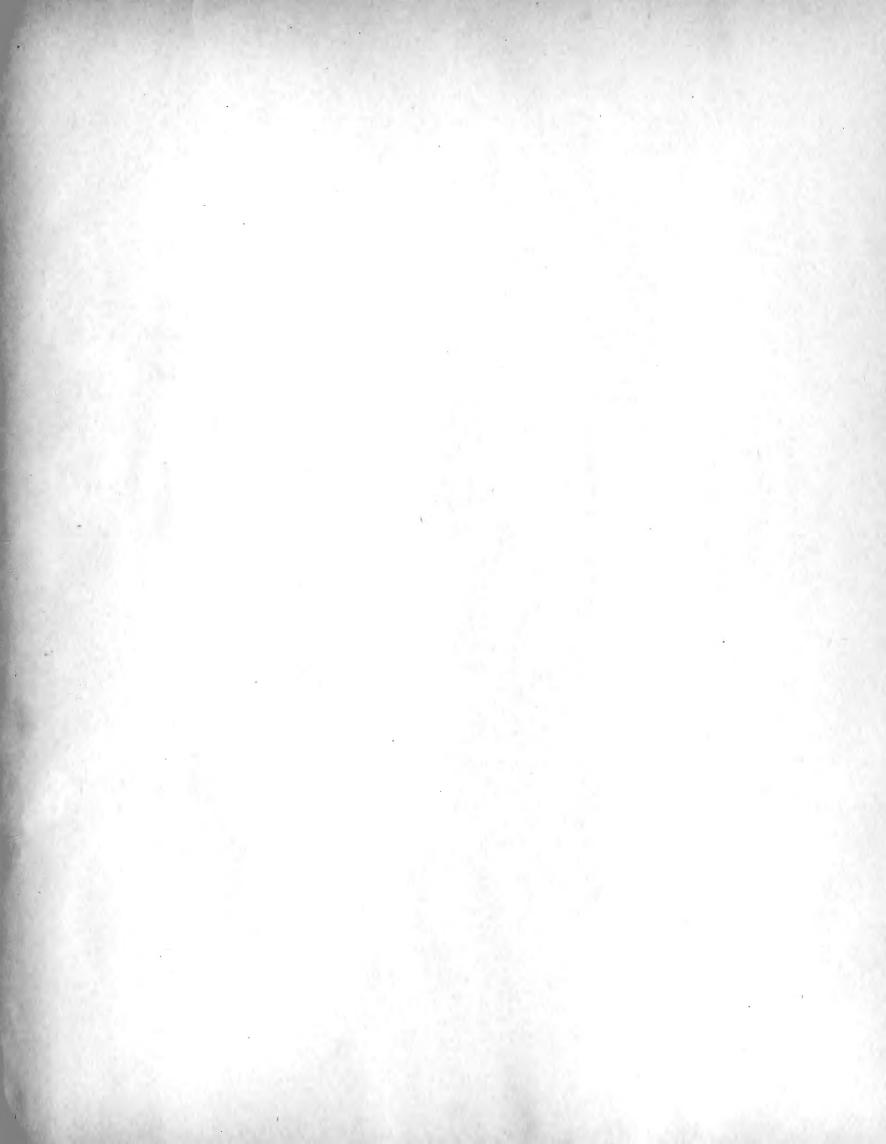


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RIJKSOPSPORING VAN DELFSTOFFEN Nº 7

MITTEILUNGEN DER STAATLICHEN BOHRVERWALTUNG
IN DEN NIEDERLANDEN

MÉMOIRES DU SERVICE DES EXPLORATIONS MINIÈRES
DE L'ETAT DES PAYS, BAS

MEMOIRS OF THE GOVERNMENT INSTITUTE FOR THE GEOLOGICAL EXPLORATION OF THE NETHERLANDS

1511 QE 919

FLORA

OF THE

CARBONIFEROUS OF NETHERLANDS

AND

ADJACENT REGIONS

ВЪ

Dr. W. J. JONGMANS

VOL. I

A MONOGRAPH OF THE CALAMITES OF WESTERN EUROPE

RY

Dr. R. KIDSTON, F. R. S. L. AND E., F. G. S. AND Dr. W. J. JONGMANS

ATLAS
PLATE 1—158

UITGEGEVEN OP LAST VAN HET MINISTERIE VAN LANDBOUW, NIJVERHEID EN HANDEL

's=GRAVENHAGE 1915



GEDRUKT DOOR T KASTEEL VAN AEMSTEL AMSTERDAM 501

PROVISIONAL EXPLANATION OF FIGURES 1).

(A MORE DETAILED ONE WILL BE ISSUED IN THE VOLUME OF TEXT).

*Pl. 1, fig. 1; Pl. 2, fig. 1, 2	C. undulatus Sternb.
Pl. 3, 4, 5	C. undulatus Sternb.
*Pl. 6, fig. 1, 2	
*Pl. 6, fig. 3, 4, 5	C. undulatus Sternb.
*Pl. 6, fig. 6; Pl. 7, fig. 1	C. undulatus Sternb.
Pl. 7, fig. 2; Pl. 8 . •	C. undulatus Sternb.
*Pl. 9, fig. 1, 2, 3; Pl. 10, fig. 1, 2	C. undulatus Sternb.
*Pl. 9, fig. 4; Pl. 32, fig. 3, 4	C. undulatus Sternb.
Pl. 9, fig. 5	
*Pl. 10, fig. 1, 2; Pl. 9, fig. 1, 2, 3	C. undulatus Sternb.
Pl. 10, fig. 3	
*Pl. 10, fig. 4, 5	C. undulatus Sternb.
Pl. 11, fig. 1	C. undulatus Sternb.
*Pl. 11, fig. 2; Pl. 12, fig. 1	C. undulatus Sternb.
*Pl. 12, fig. 1; Pl. 11, fig. 2	C. undulatus Sternb.
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*Pl. 17, fig. 1, 2	C. undulatus Sternb.
Pl. 18	C. undulatus Sternb.
*Pl. 19, fig. 1, 2	C. undulatus Sternb.
Pl. 19, fig. 3; Pl. 20; Pl. 21, fig. 1	C. undulatus Sternb.
*Pl. 21, fig. 2; Pl. 22, fig. 1, 2	C. undulatus Sternb.
Pl. 23	C. undulatus Sternb.
*Pl. 24, fig. 1, 2	C. undulatus Sternb.
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Pl. 24, fig. 4	Calamostachys ramosa Weiss.
*Pl. 25, fig. 1; Pl. 26, fig. 1	C. undulatus Sternb.
*Pl. 25, fig. 2, 3, 4; Pl. 26, fig. 2	C. undulatus Sternb.
*Pl. 26, fig. 1; Pl. 25, fig. 1	C. undulatus Sternb.
*Pl. 26, fig. 2; Pl. 25, fig. 2, 3, 4	C. undulatus Sternb.
Pl. 26, fig. 3, 4; Pl. 27, fig. 1	C. undulatus Sternb.
*Pl. 27, fig. 2, 3	C. undulatus Sternb.
Pl. 27, fig. 4; Pl. 28, fig. 1, 2	C. undulatus Sternb.
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¹⁾ Those marked with an asterisk, belong to one specimen.

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*Pl. 31, fig. 1, 2 . . . . . . . . . . . . . . . . C. undulatus Sternb.
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                                    C. undulatus Sternb.
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Pl. 31, fig. 5; Pl. 32, fig. 1, 2 . . . . . . . .
                                    C. undulatus Sternb.
*Pl. 33, fig. 1, 2 . . . . . . . . . . . . . . . .
                                    C. undulatus Sternb.
Pl. 33, fig. 3, 4 . . . . . . . . . . . . . . . . . C. undulatus Sternb.
*Pl. 34, fig. 1, 2, 3 . . . . . . . . . . . . . . . . . C. undulatus Sternb.
*Pl. 34, fig 4; Pl. 35, fig. 1, 2 . . . . . . . . . . . . C. undulatus Sternb.
*Pl. 35, fig. 3, 4; Pl. 36, fig. 1, 2 . . . . . . . . . . . C. undulatus Sternb.
*Pl. 36, fig. 3, 4; Pl. 38, fig. 1 . . . . . . . . . C. undulatus Sternb.
*Pl. 36, fig. 5; Pl. 37, fig. 1 . . . . . . . . . . . . . C. undulatus Sternb.
*Pl. 38, fig. 1; Pl. 36, fig. 3, 4 . . . . . . . . . . . . C. undulatus Sternb.
C species (cf. semicircularis Weiss).
C. species.
                                    C. undulatus Sternb.
*Pl. 39, fig. 2, 3 . . . . . . . . . . . . . . .
                                    C. suckowi Bgt.
C. cf. infractus Gutbier.
C. roemeri Goeppert.
C. wedekindi Weiss.
C. semicircularis Weiss.
Pl. 41, fig. 1, 2, 3 . . . . . . . . . . . . . . .
                                    C. carinatus Sternb. var. rugosus Kidston et Jongmans.
C. wedekindi Weiss.
                                    C. semicircularis Weiss.
*Pl. 42, fig. 1, 2 . . . . . . . . . . . . . . . .
*Pl. 42, fig. 3, 4 . . . . . . . . . . . . . . . . . C. semicircularis Weiss.
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*Pl. 43, fig. 1; Pl. 44, fig. 4; Pl. 45, fig. 1 . . . C. semicircularis Weiss.
C. wedekindi Weiss.
Pl. 43, fig. 4 . . . . . . . . . . . . . . . . C. semicircularis Weiss.
C. wedekindi Weiss.
Pl. 44, fig. 2, 3 . . . . . . . . . . . . . . . . C. semicircularis Weiss.
*Pl. 44, fig. 4; Pl. 43, fig. 1; Pl. 45, fig. 1 . . . C. semicircularis Weiss.
*Pl. 45, fig. 1; Pl. 43, fig. 1; Pl. 44, fig. 4 . . . C. semicircularis Weiss.
Pl. 45, fig. 2, 3; Pl. 46, fig. 1, 2 . . . . . . . . . . . C. semicircularis Weiss.
*Pl. 46, fig. 3, 4 · · · · · · · · C. semicircularis Weiss.
                                    C. roemeri Goeppert.
*Pl. 47, fig. 2, 3 . . . . . . . . . . . . . . . . . C. semicircularis Weiss.
*Pl. 47, fig. 4, 5 . . . . . . . . . . . . . . . .
                                    C. semicircularis Weiss.
*Pl. 47, fig. 7; Pl. 48, fig. 1; Pl. 50, fig. 5 . . . C. undulatus Sternb.
C. semicircularis Weiss.
C. vaginatus Zeiller.
Pl. 49, fig. 1 . . . . . . . . . . . . . . . . . C. semicircularis Weiss.
Pl. 49, fig. 2 . . . . . . . . . . . . . . . . C. ohlsbachensis Sterzel.
. . . . . . . . . . . . . . C. ohlsbachensis Sterzel.
*Pl. 49, fig. 5, 6, 7
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C. dictyoderma Kidston et Jongmans.
*Pl. 50, fig. 1, 2 . . . . . . . . . . . . . . . .
Pl. 50, fig. 5; Pl. 47, fig. 7; Pl. 48, fig. 1 . . . C. undulatus Sternb.
Equisetites species.
Equisetites zeaeformis Schloth.
                  C. undulatus Sternb.
C. verticillatus L. et H.
C. goepperti Ett.
*Pl. 52, fig. 1, 2 . . . . . . . . . . . . . . . . . C. species (C. verticillatus Zeiller).
Pl. 52, fig. 6; Pl. 52, fig. 7 . . . . . . . . . . . . . C. verticillatus L. et H.
Pl. 53, fig. 3; Pl. 54, fig. 1 . . . . . . . . . . . . . . . C. goepperti Ett.
Pl. 56, fig. 1, 2, 3, \(\frac{1}{2}\) . . . . . . . . . . . . C. goepperti Ett.
*Pl. 56, fig. 5, 6; Pl. 57, fig. 1, 2, 3 . . . . . ? C. sachsei Stur.
Pl. 57, fig. 4, 5, 6, 7; Pl. 58, fig. 1 . . . . . . C. sachsei Stur.
C. sachsei Stur.
* Pl. 61, fig. 1, 2 · · · · · · · · · C. sachsei Stur.
Pl. 62, fig. 3 . . . . . . . . . . . . . . . . . C. discifer Weiss.
Pl. 62, fig. 4; Pl. 63, fig. 1, 2, 3 . . . . . . . C. brittsii White.
*Pl. 65, fig. 3, 4, 5 . . . . . . . . . . . . . . . ? C. brittsii White.
Pl. 66, fig. 1, 2, 3 . . . . . . . . . . . . . . .
                  C. goepperti Ett.
Pl. 66, fig. 6; Pl. 67, fig. 1 . . . . . . . . . . . . . . . C. paleaceus Stur.
Pl. 67, fig. 2, 3 . . . . . . . . . . . . . . . . C. discifer Weiss.
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	C. schützeiformis intermedius Kidston et Jongmans.
Pl. 68, fig. 3	C. discifer Weiss.
Pl. 68, fig. 4, 5	C. pseudogermarianus Kidston et Jongmans.
Pl. 69, fig. 1	C. deltenrei Kidston et Jongmans.
Pl. 69, fig. 2	C germarianus Goeppert.
Pl. 69, fig 3	C. vandergrachti Kidston et Iongmans.
*Pl. 69, fig. 4; Pl. 70, fig. 1, 5	C vandergrachti Kidston et Jongmans
*P). 69, fig. 4; Pi. 70, fig. 1, 3	C. vandergrachti Vidaton et Jongmans.
*Pl. 70, fig. 2, 3, 4	C. vandergrachti Kluston et Jongmans.
*Pl. 71, fig. 1, 2	Species († C. germanianus Goeppert).
Pl. 71, fig. 3	C. schutzeiformis typicus Kidston et Jongmans.
Pl. 71, fig. 4, 5; Pl. 72	C. schützeitormis waldenburgensis Kidston.
*Pl. 73, fig. 1, 2	C. schützeiformis intermedius Kidston et Jongmans.
Pl. 73, fig. 3, 4	C. schützeiformis waldenburgensis Kidston.
Pl. 73, fig. 5	C schützeiformis typicus Kidston et Jongmans.
*Pl. 74, fig. 1; Pl. 75, fig. 1, 2	C. schützeiformis typicus Kidston et Iongmans.
*Pl. 74, fig. 2, 3	C. schiitzeiformis waldenburgensis Kidston.
Pl. 74, fig. 4	C species (Phragma)
*Pl. 75, fig. 1, 2; Pl. 74, fig 1	C. schützeiformis tyrnique Kideton et Ionomans
*Pl. /5, fig. 1, 2; Pl. /4, fig 1	C. schutzenorms typicus Riuston et jongmans.
*Pl. 76, fig. 1, 2	C. schutzel Stur.
Pl. 76, fig. 3	C. schützeiformis intermedius Kidston et Jongmans.
Pl. 76, fig. 4, 5, 6	C. species (Phragmata).
*Pl. 77, fig. 1, 2	C. schützeiformis waldenburgensis Kidston.
*Pl. 77, fig. 3, 5	C. species (Bulbils).
Pl. 77. fig. 4	C. species (Bulbils).
Pl. 78, fig. 1	C. schützeiformis waldenburgensis Kidston.
Pl. 78. fig. 2	C. disciter Weiss.
Pl. 78, fig. 3	C. schützeiformis waldenburgensis Kidston.
*Pl. 78, fig. 4, 5	C. species (Bulbils).
*Pl. 78, fig. 6, 7	C. species (Bulbils).
Pl. 79, fig. 1, 2	C. schützeiformis typicus Kidston et Jongmans.
*Pl. 79, fig. 3, 4	C. schützeiformis waldenburgensis Kidston.
*Pl. 80, fig. 1, 2	C schitzeiformis typicus Kidston et Iongmans.
Pl. 00, fig. 1, 2	C energies (Phragmata)
Pl. 80, fig. 3, 4	C. species (Filiaginata).
*Pl. 80, fig. 5, 6	C. species (Buions).
Pl. 81, fig. 1	C. paleaceus Stur.
Pl. 81, fig. 2, 3	C. schutzei Stur.
Pl. 81, fig. 4	C. goepperti Ett.
*Pl. 82, fig. 1, 2, 3	C. suckowi Bgt.
Pl. 83, fig. 1, 2, 3; Pl. 84, 85; Pl. 86, fig. 1	C. suckowi Bgt.
*Pl. 86, fig. 2, 3	C. suckowi Bgt.
Pl. 87, fig. 1, 2, 3	C. suckowi Bgt.
Pl. 88, fig. 1	C. steinhaueri Bgt.
Pl. 88, fig. 2, 3; Pl. 89, fig. 1	C. suckowi Bgt.
*Pl. 89, fig. 2, 3	C. suckowi Bgt. (Rhizome).
Pl. 89, fig. 4, 5	C. suckowi Bgt. (Rhizome).
Pl. 90, fig. 1	C. species.
Pl. 90, fig. 2	C. suckowi Bgt.
D1 00 fig. 3	C gigas Rot
Pl. 90, fig. 3	0. 6.6.0 Dg.

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*Pl. 90, fig. 4, 5 . . . . . . . . . . . . . . . .
                                 C. gigas Bgt.
Pl. 91, 92, 93 . . . . . . . . . . . . . . . . . .
                                 C. gigas Bgt.
Pl. 94, fig. 1, 2 . . . . . . . . . . . . . . . .
                                 C. cisti Bgt.
*Pl. 95, fig 1; Pl. 99, fig. 2 . . . . . . . . . . . . . . . . C. sachsei Stur.
Pl. 95, fig. 2, 3 . . . . . . . . . . . . . . . .
                                 C. cisti Bgt.
*Pl. 95, fig. 4, 5 . . . . . . . . . . . . . . . .
                                 C. cisti Bgt.
C. cisti Bgt.
                                 C. gigas Bgt.
Pl. 96, fig. 4, 5 . . . . . . . . . . . . . . . . .
                                 C. species (immature stem).
C. jubatus L. et H.
C. jubatus L. et H.
*Pl. 99, fig. 2; Pl. 95, fig. 1 . . . . . . . . . .
                                 C. sachsei Stur.
C. species (tuberous stem).
C. species (Phragma).
C. jubatus L. et H.
                                 Asterophyllites longifolius Sternb.
Pl. 100, fig. 3. . . . . . . . . . . . . . . . . .
C. species (Phragma).
                                 C. species (Pith cast and vascular wedges).
*Pl. 101, fig. 1, 2, 3 . . . . . . . . . . . . . .
                                 C. distachyus Sternb.
* Pl. 102, fig. 1, 2, 3 . . . . . . . . . . . . . .
                                 C. distachvus Sternb.
C. schulzi Stur.
C. schulzi Stur.
*Pl. 104, fig. 2, 3 . . . . . . . . . . . . . . . .
                                 C. arborescens Sternb.
Pl. 104, fig. 5; Pl. 105. . . . . . . . . . . . . . . C. carinatus Sternb.
*Pl. 106, fig. 1, 3. . . . . . . . . . . . . . . . . . C. carinatus Sternb.
C. carinatus Sternb.
Pl. 106, fig. 5. . . . . . . . . . . . . . . . . .
                                 ? C. cisti Bgt.
*Pl. 107, fig. 2, 3. . . . . . . . . . . . . . . .
                                 C. renaulti Kidston et Jongmans.
*Pl. 108, fig. 1, 2. . . . . . . . . . . . . . . . . . C. carinatus Sternb.
Pl. 108, fig. 3, 4, 5 . . . . . . . . . . . . . .
                                 C. paleaceus Stur.
Pl. 110, 111, 112; Pl. 113, fig. 1, 2 . . . . . . C. paleaceus Stur.
Pl. 113, fig. 3, 4. . . . . . . . . . . . . . . . .
                                 C. cruciatus Sternb.
C. multiramis Weiss.
Pl. 114, fig. 3. . . . . . . . . . . . . . . . . .
                                 C. cruciatus Sternb.
Pl. 114, fig. 4; Pl. 115, fig. 1 . . . . . . . . . . . . . . C. paleaceus Stur.
*Pl. 116, fig. 1; Pl. 117, fig. 1 . . . . . . . . . C. multiramis Weiss.
*Pl. 117, fig. 1; Pl. 116, fig. 1 . . . . . . . . C. multiramis Weiss.
Pl. 118, fig. 2. . . . . . . . . . . . . . . . C. multiramis Weiss.
Pl. 119, fig. 1. . . . . . . . . . . . . . . . C. britannicus Weiss.
*Pl. 119, fig. 2; Pl. 120, fig. 1 . . . . . . . . . . . . . C. multiramis Weiss.
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Pl. 120, fig. 2. . . . . . . . . . . . . . . . . .
                                                 C. multiramis Weiss.
 C. cruciatus Sternb.
*Pl. 121, fig. 2; Pl. 122, fig. 1
                                                 C. cucullatus Weiss.
 Pl. 122, fig. 2. . . . . . . . . . . . . . . . . .
                                                 C. britannicus Weiss.
*Pl. 122, fig. 3; Pl. 123, fig. 1, 2. . . . . . . .
                                                 C. multiramis Weiss.
 Pl 122, fig. 4. . . . . . . . . . . . . . . . . .
                                                 C. multiramis Weiss.
*Pl. 123, fig. 1, 2; Pl. 122, fig. 3 . . . . . .
                                                 C. multiramis Weiss.
*Pl. 123, fig. 3, 4 . . . . . . . . . . . . . . .
                                                 C. multiramis Weiss.
*Pl. 123, fig. 5; Pl. 124, fig. 2 . . . . . . . .
                                                 C. multiramis Weiss.
 C. multiramis elongatus Gutbier.
* Pl. 124, fig. 2; Pl. 123, fig. 5 . . . . . . . .
                                                 C. multiramis Weiss.
* Pl. 124, fig. 3; Pl. 125, fig. 1 . . . . . . . .
                                                 C. multiramis Weiss.
 Pl. 125, fig. 2; Pl. 126, 127; Pl. 128, fig. 1. . .
                                                 C. multiramis Weiss.
*Pl. 128, fig. 2; Pl. 129, fig. 1 . . . . . . . .
                                                 C. brongniarti Sternb.
* Pl. 129, fig. 2, 3 . . . . . . . . . . . . . . .
                                                 C. artisi Renault.
 Pl. 130, fig. 1, 2 . . . . . . . . . . . . . . . .
                                                 C. cruciatus Sternb.
 Pl. 130, fig. 3. . . . . . . . . . . . . . . . . .
                                                 C. cruciatus elongatus Gutbier.
 Pl. 131, fig. 1. . . . . . . . . . . . . . . . . .
                                                 C. cruciatus Sternb.
*Pl. 131, fig. 2, 3. . . . . . . . . . . . . . .
                                                 C. infractus Gutbier.
 Pl. 132, fig. 1. . . . . . . . . . . . . .
                                                 C. infractus Gutbier.
 Pl. 132, fig. 2. . . . . . . . . . . . . . . . .
                                                 C. cf. infractus Gutbier.
*Pl. 132, fig. 3, 4 . . . . . . . . . . . . . . .
                                                 C. elongatus Renault.
 Pl. 133, fig. 1. . . . . . . . . . . . . . . . .
                                                 C. cf. infractus Gutbier.
                  . . . . . . . . . . .
*Pl. 133, fig. 2, 3.
                                                 C. multiramis elongatus Gutbier.
 C. species (Arthropitys parrani G. E.).
*Pl. 135, fig. 1, 2. . . . . . . . . . . . . . .
                                                 C. goepperti Ett.
 Pl. 135, fig. 3. . . . . . . . . . . . . . . . . .
                                                 Equisetites cf. vaujoli Zeiller.
 Pl. 136, fig. 1. . . . . . . . . . . . . . . . .
                                                 C. goepperti Ett.
*Pl. 136, fig. 2, 3 . . . . . . . . . . . . . . .
                                                 C. suckowi Bgt.
 Pl. 157, fig. 1, 2. . . . . . . . . . . . . . . .
                                                 C. suckowi Bgt.
 Pl. 137, fig. 3. . . . . . . . . . . . . . . . . .
                                                 C. undulatus Sternb.
 Pl. 138, fig. 1. . . . . . . . . . . . . . . . . .
                                                 C. suckowi Bgt.
 Pl. 138, fig. 2. . . . . . . . . . . . . . . . . .
                                                 C. germarianus Goeppert.
                                                 Equisetites goepperti Ett.
 Pl. 138, fig. 3.
               Pl. 138, fig. 4. . . . . . . . . . . . . . . . . .
                                                 C. roemeri Goeppert.
 Pl. 139, fig. 1.
                                                 C. typ. cruciatus Sternb.
               . . . . . . . . . . . .
 Pl. 139, fig. 2. . . . . . . . . . . . . . . . . .
                                                 "Hippurites gigantea" L. et H.
 Pl. 139, fig. 3. . . . . . . . . . . . . . . . .
                                                 Equisetites species.
 Pl. 139, fig. 4, 5. . . . . . . . . . . . . . . .
                                                 C. species.
 Pl. 140, fig. 1, 2. . . . . . . . . . . . . . . .
                                                 "Asterophyllites grandis" L. et H.
                                                 C. approximatiformis Stur.
 Pl. 141, fig. 1, 2, 3 . . . . . . . . . . . . . . .
 Pl. 141, fig. 4. . . . . . . . . . . . . . . . . .
                                                 C. ramifer Stur.
*Pl. 141, fig. 5; Pl. 142, fig. 1 . . . . . . . .
                                                 C. ramifer Stur.
*Pl. 141, fig. 6; Pl. 142, fig. 2 . . . . . . . .
                                                 C. cistiiformis Stur.
*Pl. 142, fig. 1; Pl. 141, fig. 5 . . . . . . . .
                                                 C. ramifer Stur.
                                                 C. cistiiformis Stur.
*Pl. 142, fig. 2; Pl. 141, fig. 6 . . . . . . . . .
 Pl. 142, fig. 3. . . . . . . . . . . . . . . . ? C. cistiiformis Stur.
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*Pl. 142, fig. 5, 6 (numbered on Plate fig. 2 right
                                             C. haueri Stur.
 *Pl. 143, fig. 1, 2; Pl. 144, fig. 1
                                             C. ramifer Stur.
*Pl. 143, fig. 3, 4. . . . . . . . . . . . .
                                             C. haueri Stur.
                                             C. roemeri Goeppert.
Pl. 143, fig. 5, 6 . . . . . . . . . . . . .
Pl. 143, fig. 7. . . . . . . . . . . . . . . . . .
                                             C. cistiiformis Stur.
*Pl. 144, fig. 1; Pl. 143, fig. 1, 2
                                             C. ramifer Stur.
C. haueri Stur.
                           . . . .
*Pl. 144, fig. 4; Pl. 145, fig. 1
                                             C. cistiiformis Stur.
*Pl. 145, fig. 2, 3. . . . . . . . . . . . . . . .
                                             C. haueri Stur.
                                             C. haueri Stur.
Pl. 145, fig. 4. . . . . . . . . . . . . . . . . .
                                             C. species (C. ramifer Zeiller, Héraclée).
Pl. 145, fig. 5. . . . . . . . . . . . . . . . . .
Pl. 145, fig. 6. . . . . . . . . . . . . . . . . .
                                             C. cistiiformis Stur.
Pl. 145, fig. 7; Pl. 146, fig. 1, 2
                                             C. haueri Stur.
C. cistiiformis Stur.
*Pl. 147, fig. 3, 4 . . . . . . . . . . . . . . .
                                             C. cistiiformis Stur.
Pl. 147, fig. 5; Pl. 148, fig. 1 . . . . .
                                             C. taitianus Kidston et Jongmans.
Pl. 148, fig. 2. . . . . . . . . . . . . . . . . .
                                             C. species.
                                             C. taitianus Kidston et Jongmans.
C. taitianus Kidston et Jongmans.
Pl. 149, fig. 5. . . . . . . . . . . . . . . . . .
                                             C. taitianus Kidston et Jongmans.
*Pl. 149, fig. 6; Pl. 150, fig. 1, 2
                                             Asterocalamites radiatus Bgt.
*Pl. 150, fig. 3; Pl. 151, fig. 1 . . . . . .
                                             Asterocalamites radiatus Bgt.
Pl. 151, fig. 2, 3 . . . . . . . . . . . . . . . .
                                             C. species.
Asterocalamites radiatus Bgt.
Pl. 152, fig. 3. . . . . . . . . . . . . . . . .
                                             Asterocalamites radiatus Bgt.
                                             Asterocalamites radiatus Bgt.
*Pl. 152, fig. 4, 5 . . . . . . . . . . . . . . .
Pl. 153, fig. 1, 2, 3 . . . . . . . . . . . . . .
                                             Asterocalamites radiatus Bgt.
                                             Asterocalamites radiatus Bgt.
*Pl. 153, fig. 4, 5. . . . . . . . . . . . . . . .
                                             "Anarthrocanna" Goeppert.
*Pl. 154, fig. 1, 2, 3 . . . . . . . . . .
                                             "Stigmatocanna volkmanniana" Goeppert.
Pl. 154, fig. 4. . . . . . . . . . . . . . . . . .
                                             Asterocalamites radiatus Bgt.
C. carinatus Sternb. var. rugosus Kidston et Jongmans.
Pl. 155, fig. 2, 3. . . . . . . . . . . . . . . .
                                             C. paleaceus Stur.
C. jubatus L. et H.
*Pl. 156, fig. 3; Pl. 157, fig. 1, 2
                                             C. jubatus L. et H.
*Pl. 156, fig. 4, 5. . . . . . . . . . . . . . . .
                                             C. roemeri Goeppert.
C. carinatus Sternb.
Pl. 156, fig. 7.
              C. verticillatus L. et H.
Pl. 156, fig. 8. . . . . . . . . . . . . . . . . .
                                             C. cruciatus Sternb.
*Pl. 157, fig. 1, 2; Pl. 156, fig. 3
                                             C. jubatus L. et H.
Pl. 157, fig. 3. . . . . . . . . . . . . . . . . .
                                             C. jubatus L. et H.
Pl. 157, fig. 4. . . . . . . . . . . . . . . . . .
                                             C. schützei Stur.
Pl. 157, fig. 5. . . . . . . . . . . . . . . . .
                                             C. undulatus Sternb.
Pl. 158, fig. 1. . . . . . . . . . . . . . . . . .
                                             C. cisti Bgt.
*Pl. 158, fig. 2, 3. . . . . . . . . . . . . . .
                                             Asterophyllites equisetiformis Schl.
Pl. 158, fig. 4.
              Annularia stellata Schl.
Pl. 158, fig. 5.
                 Palaeostachya gracillima Weiss.
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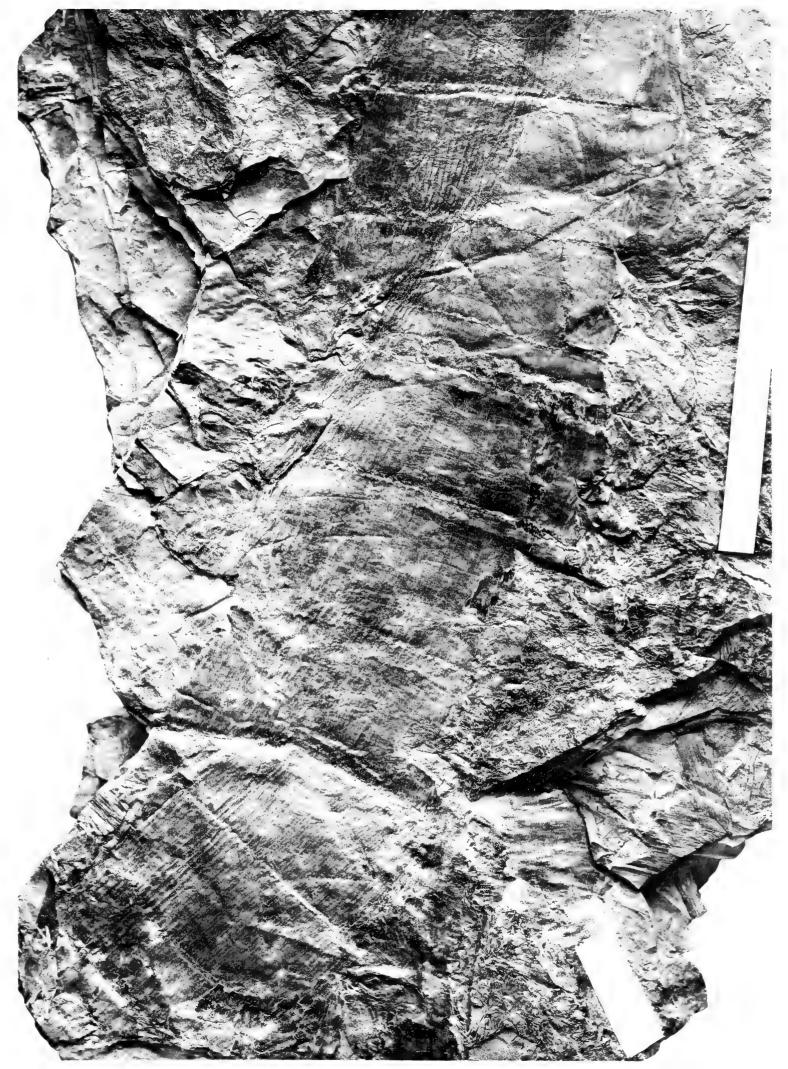
LIST OF THE SPECIES OF CALAMITES INCLUDED IN THIS MEMOIR, WITH REFERENCES TO THE PLATES ON WHICH THEY ARE FIGURED.

C. brongniarti Sternb	Pl. 104, fig. 2, 3. Pl. 129, fig. 2, 3. Pl. 59, fig. 3. Pl. 119, fig. 1; Pl. 122, fig 2. Pl. 62, fig. 4; Pl. 63, fig. 1, 2, 3; ? Pl. 65, fig. 3, 4, 5. Pl. 128, fig. 2; Pl. 129, fig. 1. Pl. 66, fig. 5; Pl. 104, fig. 5; Pl. 105; Pl. 106, fig. 1, 2, 3, 4; Pl. 107, fig. 1; Pl. 108, fig. 1, 2; Pl. 156, fig. 6.
C. carinatus Sternb. var. rugosus K. et J.	-
C. carinatus Sternb. var. A	
C. carinatus Sternb. var. B	Pl. 116, fig. 3.
C. cisti Bgt.	Pl. 94, fig. 1, 2; Pl. 95, fig. 2, 3, 4, 5; Pl. 96, fig. 1,
	2; ? Pl. 106, fig. 5; Pl. 158, fig. 1.
C. cistiiformis Stur	Pl. 141, fig. 6; Pl. 142, fig. 2, ? fig. 3; Pl. 143, fig. 7;
	Pl. 144, fig. 4; Pl. 145, fig. 1, 6; Pl. 147, fig. 1, 2, 3, 4.
C. cruciatus Sternb	Pl. 113, fig. 3, 4; Pl. 114, fig. 3; Pl. 121, fig. 1; Pl.
	130, fig. 1, 2; Pl. 131, fig. 1; Pl. 156, fig. 8.
C. cucullatus Weiss	Pl. 121, fig. 2; Pl. 122, fig. 1.
C. deltenrei K. et J	Pl. 69, fig. 1.
C. dictyoderma K. et J.	Pl. 50, fig. 1, 2.
C. discifer Weiss	Pl. 58, fig. 4; Pl. 61, fig. 4; Pl. 62, fig. 3; Pl. 65, fig.
	2; Pl. 67, fig. 2, 3; Pl. 68, fig. 3; Pl. 78, fig. 2.
C. distachyus Sternb.	Pl. 101, 102.
C. elongatus Renault	Pl. 132, fig. 3, 4.
C. germarianus Goeppert	Pl. 58, fig. 2; Pl. 69, fig. 2; Pl. 138, fig. 2; ? Pl. 71,
	fig. 1, 2.
C. gigas Bgt	Pl. 90, fig. 3, 4, 5; Pl. 91; Pl. 92, fig. 1, 2, 3; Pl. 93,
	fig 1 2. Pl 96 fig 3
C. goepperti Ett	Pl. 51, fig. 3, 4; Pl. 53, 54; Pl. 55, fig. 1–4; Pl. 56,
	fig. 1-4; Pl. 61, fig. 3; Pl. 65, fig. 1; Pl. 66, fig. 1,
	2, 3; Pl. 81, fig. 4; Pl. 135, fig. 1, 2; Pl. 136, fig. 1.
C. haueri Stur.	
	Pl. 145, fig. 2, 3, 4, 7; Pl. 146, fig. 1, 2.
C. infractus Gutbier.	. ? Pl. 39, fig. 4; Pl. 131, fig. 2, 3; Pl. 132, fig. 1, ? 2;
	? Pl.133, fig. 1.
C. jubatus L. et H.	Pl. 97; Pl. 98; Pl. 99, fig. 1; Pl. 100, fig. 1, 2; Pl. 156,
<u> </u>	fig. 1, 2, 3; Pl. 157, fig. 1, 2, 3.
C. multiramis Weiss.	. Pl. 114, fig. 1, 2; Pl. 115, fig. 2; Pl. 116, fig. 1; Pl.
	117, fig. 1; Pl. 118, fig. 2; Pl. 119, fig. 2; Pl. 120,
	fig. 1, 2; Pl. 122, fig. 3, 4; Pl. 123, fig. 1-5; Pl. 124,
	fig. 2, 3; Pl. 125, fig. 1, 2; Pl. 126, fig. 1, 2; Pl. 127;
	Pl. 128, fig. 1.
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C. multiramis Weiss var. elongatus Gutbier	Pl. 124, fig. 1; Pl. 130, fig. 3; Pl. 133, fig. 2, 3.
C. ohlsbachensis Sterzel	Pl. 48, fig. 4; Pl. 49, fig. 2—7.
C. paleaceus Stur	Pl. 66, fig. 6; Pl. 67, fig. 1; Pl. 81, fig. 1; Pl. 108, fig.
	3, 4, 5; Pl. 109, 110, 111, 112; Pl. 113, fig. 1, 2; Pl.
	114, fig. 4; Pl. 115, fig. 1; Pl. 116, fig. 2; Pl. 155,
	fig. 2, 3.
C. cf. paleaceus Stur.	Pl. 117, fig. 2.
C. pseudogermarianus K. et J	Pl. 59, fig. 4; Pl. 64, fig. 1; Pl. 68, fig. 4, 5.
C. ramifer Stur	Pl. 141, fig. 4, 5; Pl. 142, fig. 1, 4; Pl. 143, fig. 1, 2;
	Pl. 144, fig. 1.
C. renaulti K. et J	Pl. 107, fig. 2, 3.
C. roemeri Goeppert	Pl. 40, fig. 1, 2; Pl. 47, fig. 1; Pl. 138, fig. 4; Pl. 143,
	fig. 5, 6; Pl. 156, fig. 4, 5.
C. sachsei Stur	Pl. 56, fig. 5, 6?; Pl. 57, fig. 1–3?, fig. 4–7; Pl. 58,
	fig. 1, 3; Pl. 59, fig. 1; Pl. 60, fig. 1, 2, 3; Pl. 61, fig.
	1, 2; Pl. 62, fig. 1, 2; Pl. 63, fig. 4, 5, 6; Pl. 66, fig.
	4; Pl. 95, fig. 1; Pl. 99, fig. 2.
C. schulzi Stur	
C. schützei Stur	Pl. 76, fig. 1, 2; Pl. 81, fig. 2, 3; Pl. 157, fig. 4.
C. schützeiformis K. et J. forma typicus K. et J.	Pl. 68, fig. 1; Pl. 71, fig. 3; Pl. 73, fig. 5; Pl. 74, fig.
O. senatzenoribis it. et j. forma typicus it. et j.	1; Pl. 75, fig. 1, 2; Pl. 79, fig. 1, 2; Pl. 80, fig. 1, 2.
C. schützeiformis K. et J. forma intermedius K. et J.	Pl. 68, fig. 2; Pl. 73, fig. 1, 2; Pl. 76, fig. 3.
C. schützeiformis K. et J. forma waldenburgensis	Pl. 71, fig. 4, 5; Pl. 72; Pl. 73, fig. 3, 4; Pl. 74, fig. 2,
Kidston	3; Pl. 77, fig. 1, 2; Pl. 78, fig. 1, 3; Pl. 79, fig. 3, 4.
C. semicircularis Weiss	Pl. 40, fig. 4; Pl. 42, fig. 1—5; Pl. 43, fig. 1, 4; Pl.
C. Schileficularis W Clss	44, fig. 2, 3, 4; Pl. 45, fig. 1–3; Pl. 46, fig. 1–4; Pl.
	47, fig. 2–6; Pl. 48, fig. 2; Pl. 49, fig. 1.
C. steinhaueri Bgt	Pl. 88, fig. 1.
C. suckowi Bgt.	Pl. 39, fig. 2, 3; Pl. 82, 83, 84, 85, 86, 87; Pl. 88, fig.
C. suckowi bgt.	2, 3; Pl. 89; Pl. 90, fig. 2; Pl. 136, fig. 2, 3; Pl. 137,
	fig. 1, 2; Pl. 138, fig. 1.
C taitianus K at I	Pl. 147, fig. 5; Pl. 148, fig. 1; Pl. 149, fig. 1, 2, 3, 4, 5.
C. transversalis K. et J	
C. undulatus Sternb.	
C. undulatus Stellio.	1, 2; Pl. 30; Pl. 31, fig. 1, 2, 3, (4), 5; Pl. 32–37; Pl.
	38, fig. 1; Pl. 39, fig. 1; Pl. 44, fig. 1; Pl. 47, fig. 7;
	Pl. 48, fig. 1; Pl. 50, fig. 5; Pl. 51, fig. 1; Pl. 137,
	fig. 3; Pl. 157, fig. 5.
C. vaginatus Zeiller	
C. vandergrachti K. et J	
C. verticillatus L. et H.	_
C. wedekindi Weiss	11. 10, 11g. 3; 11. 11, 11g. 1; 11. 13, 11g. 2, 3, 3.
Asterocalamites radiatus Bgt	Pl 149 fig 6, Pl 150 fig 1 2 3, Dl 151 fig 1 Dl
Tisterocatamines fautatus ogt	Pl. 149, fig. 6; Pl. 150, fig. 1, 2, 3; Pl. 151, fig. 1; Pl. 152, fig. 1, 2, 3, 4, 5; Pl. 153, fig. 1, 2, 3, 4, 5; Pl.
	152, fig. 1, 2, 3, 4, 5; Pl. 153, fig. 1, 2, 3, 4, 5; Pl. 154, fig. 4.
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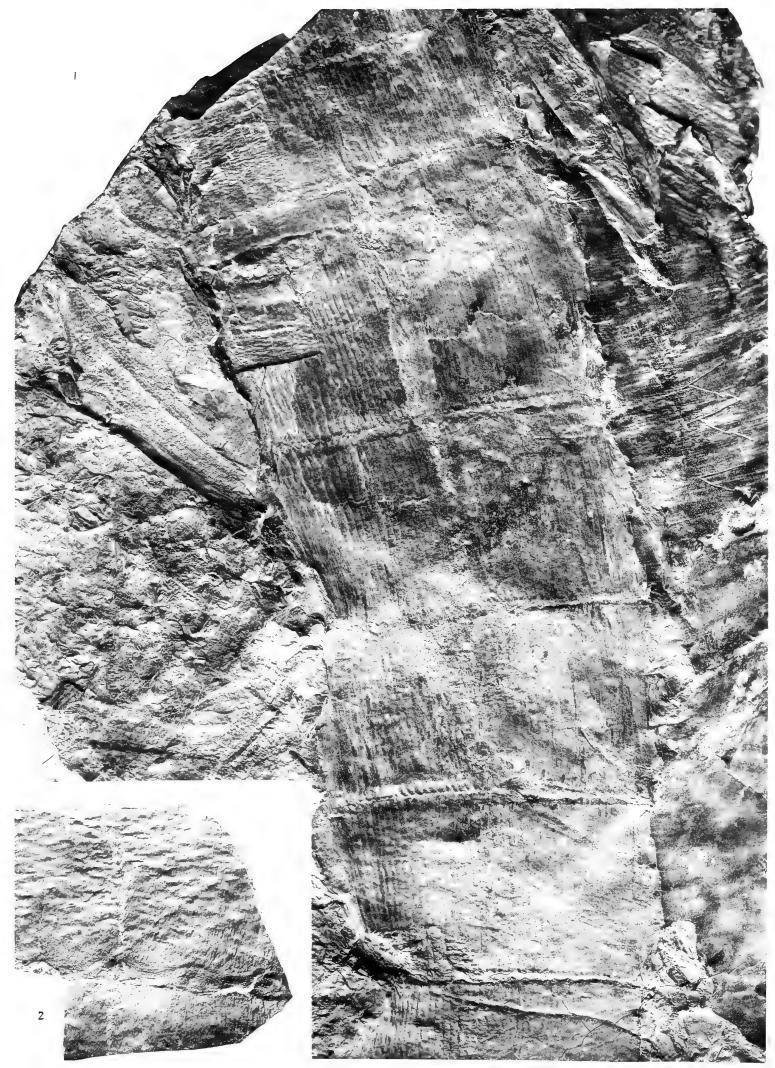


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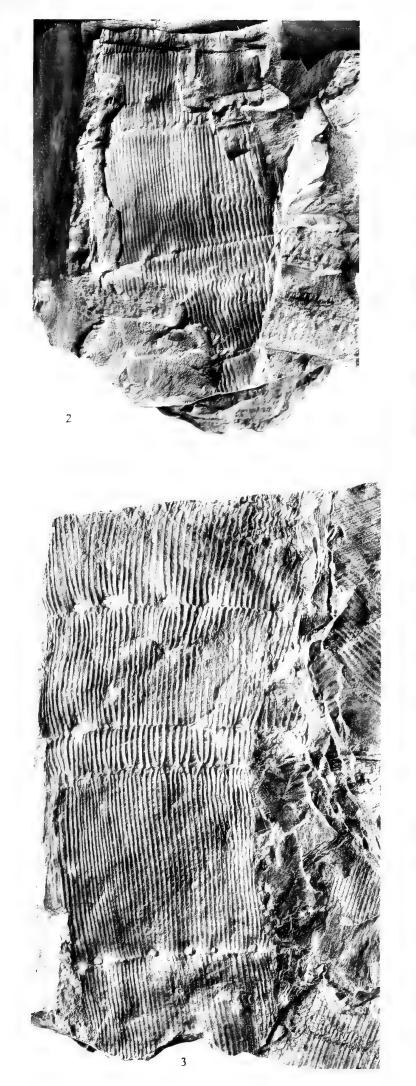
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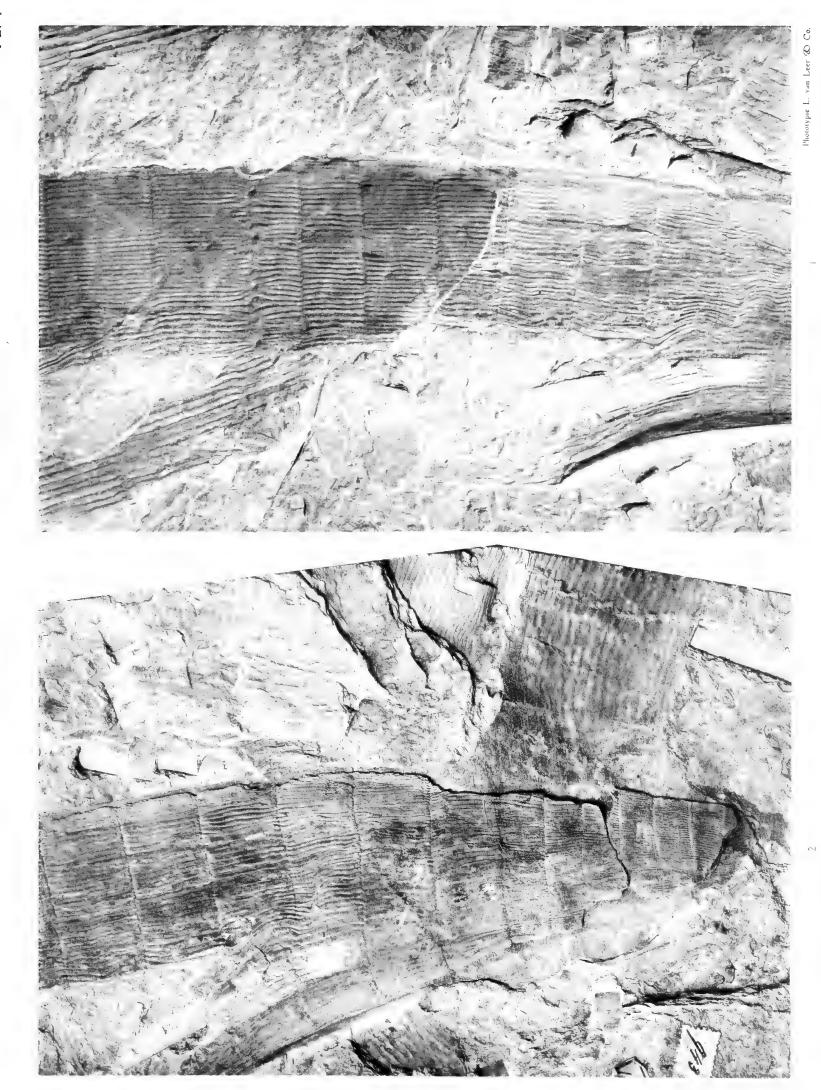
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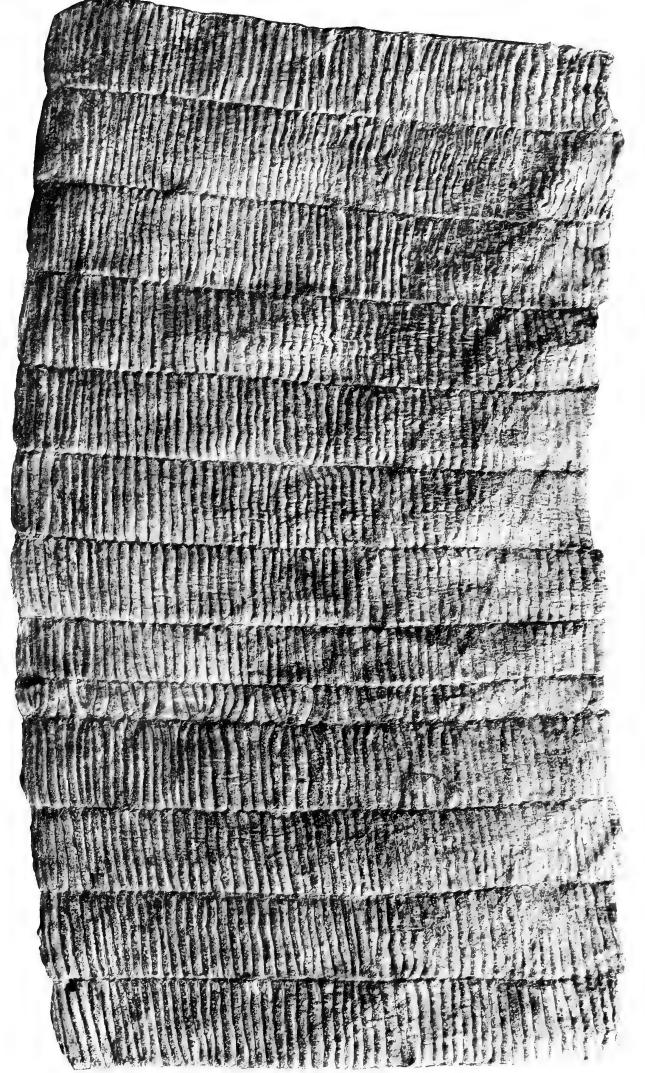


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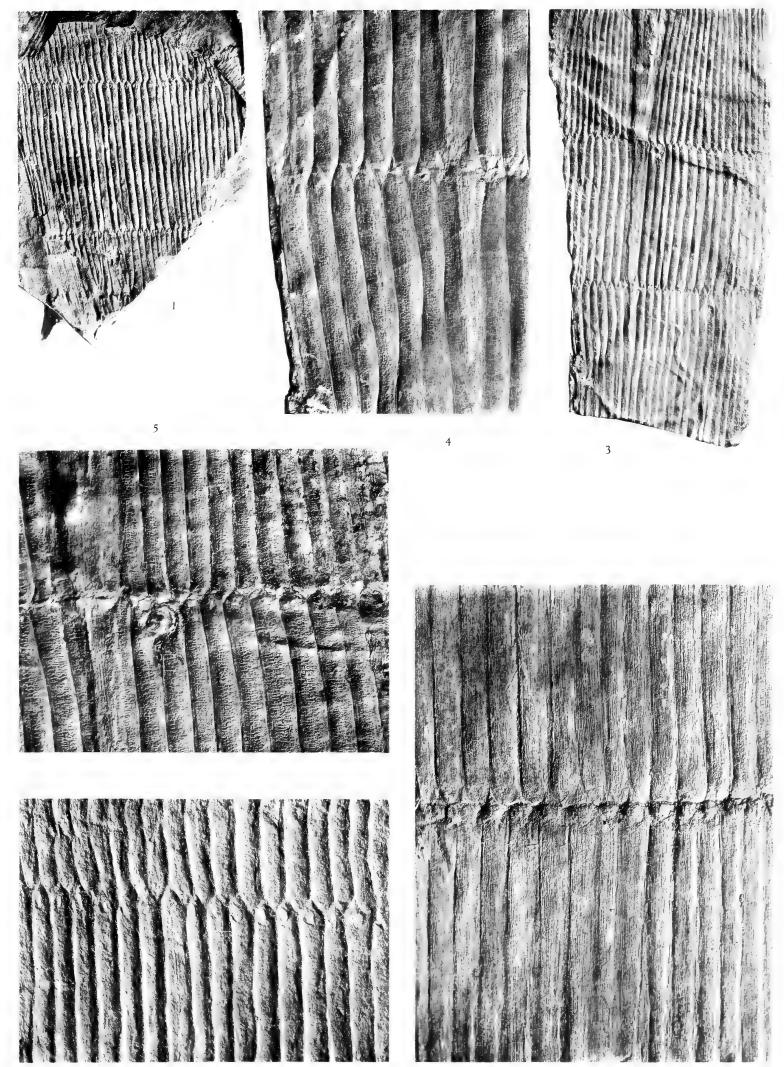
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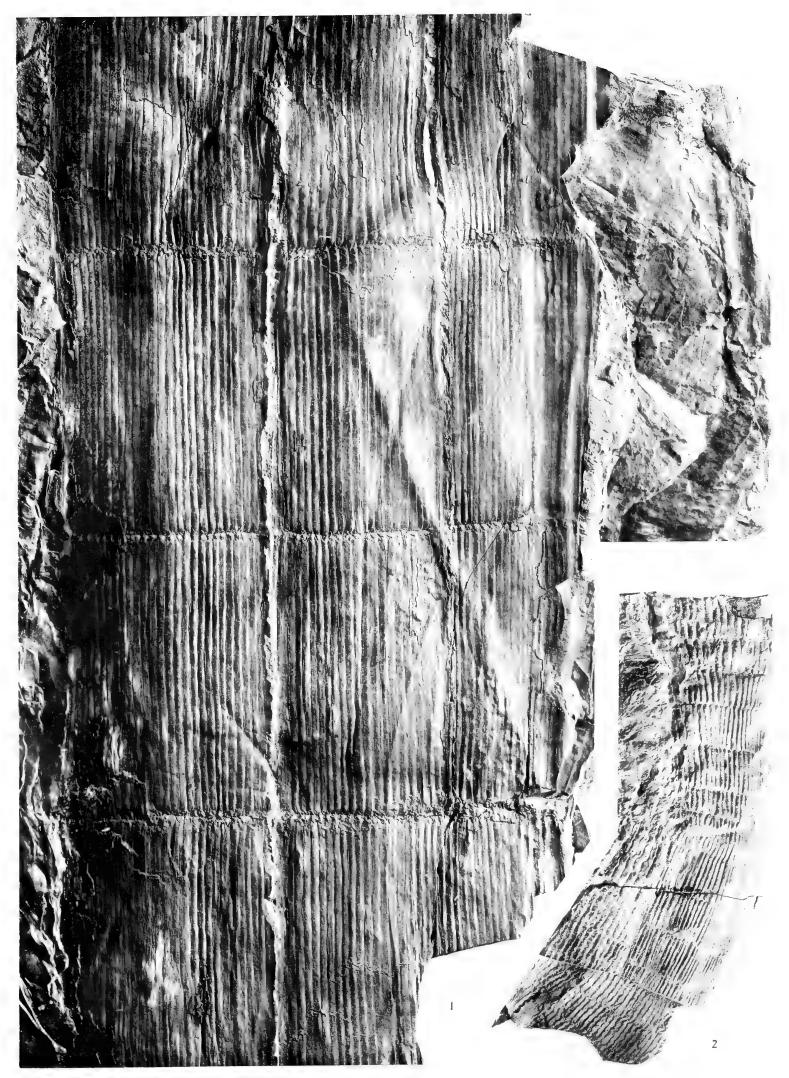




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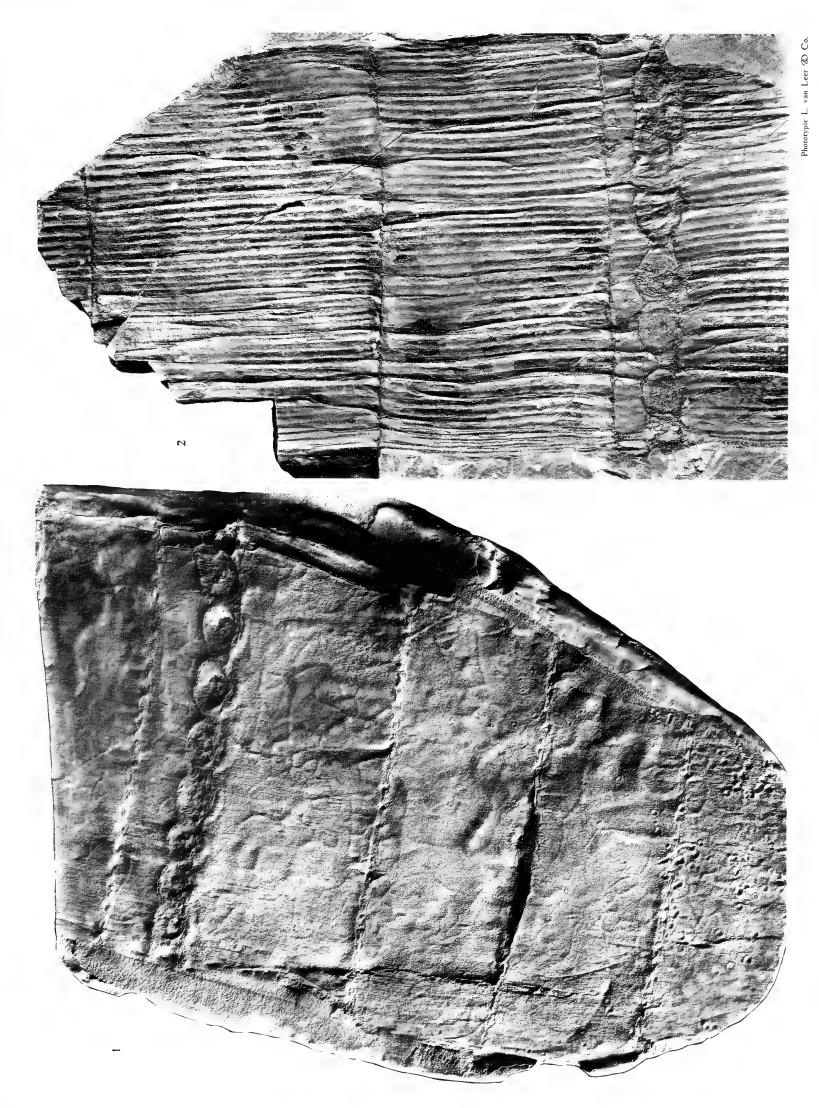


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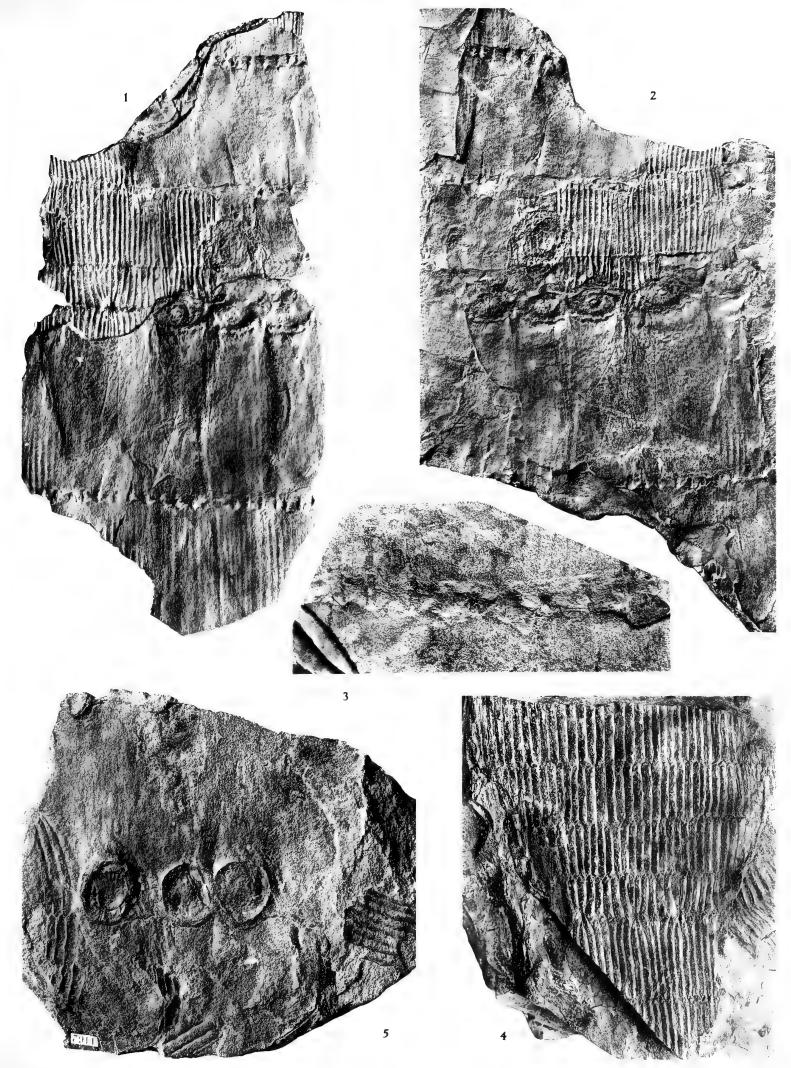


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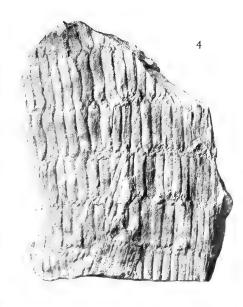
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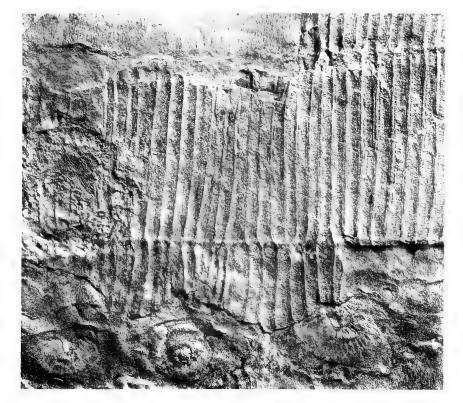
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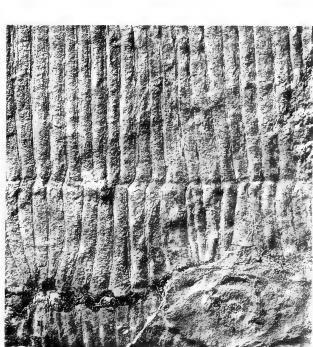
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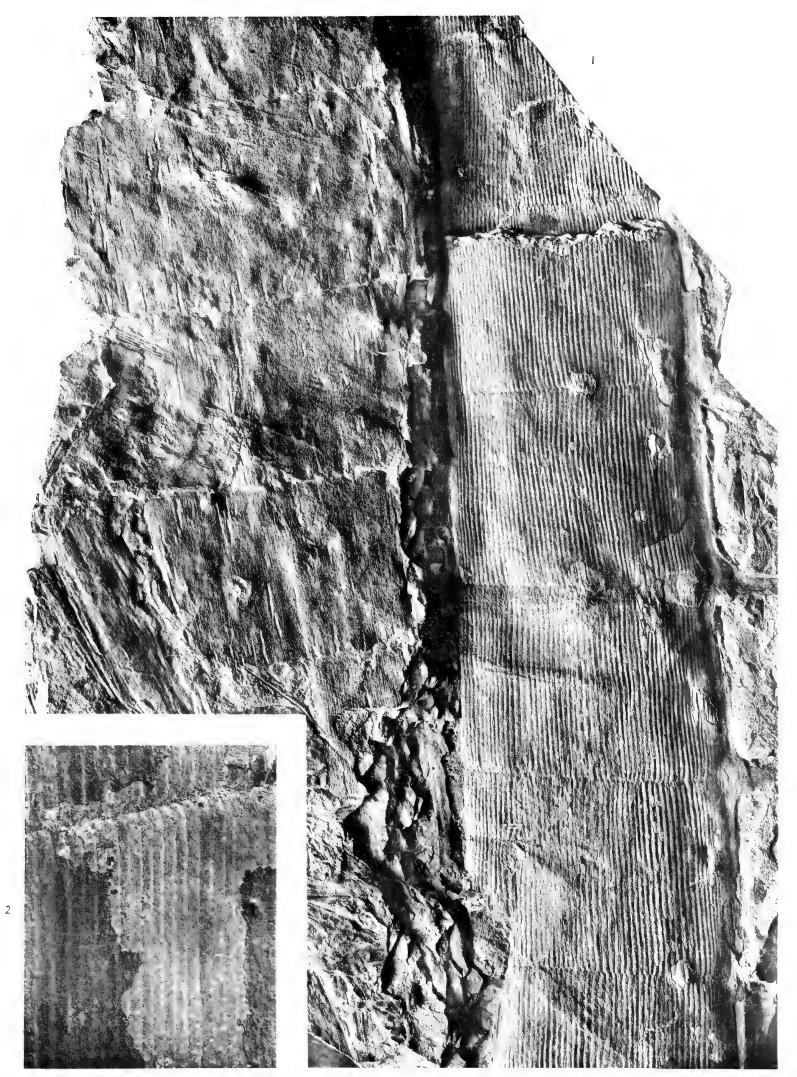






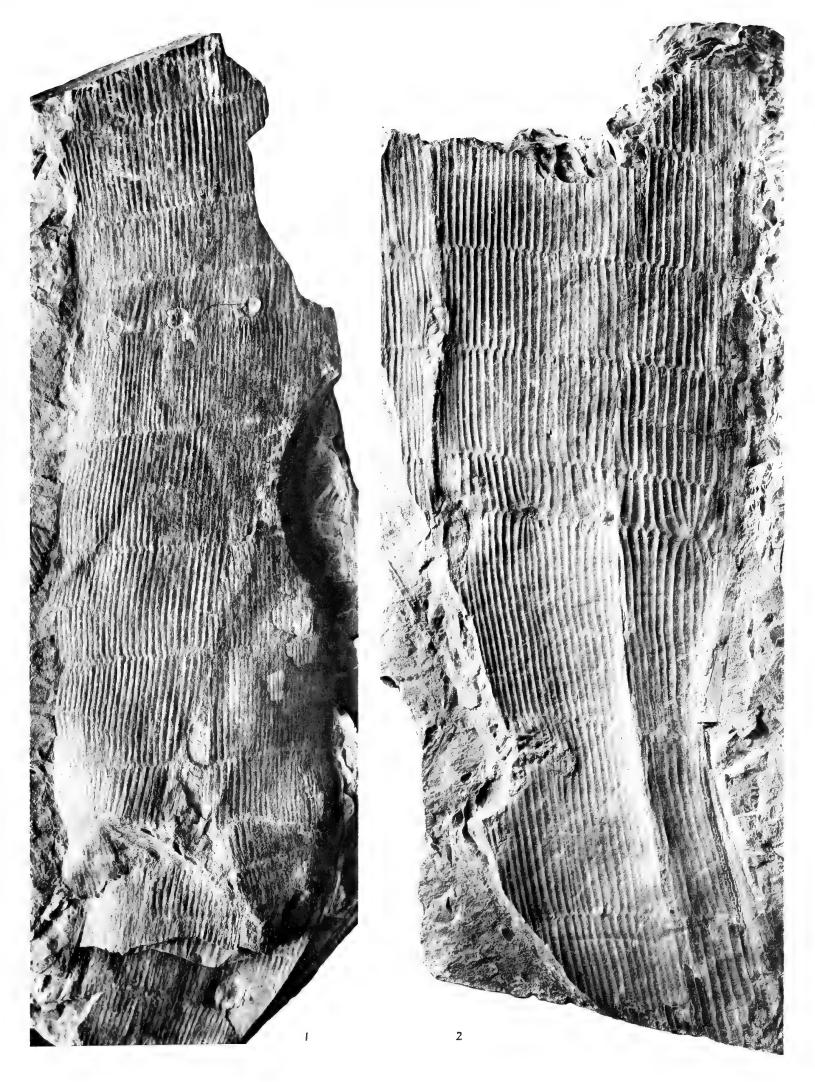
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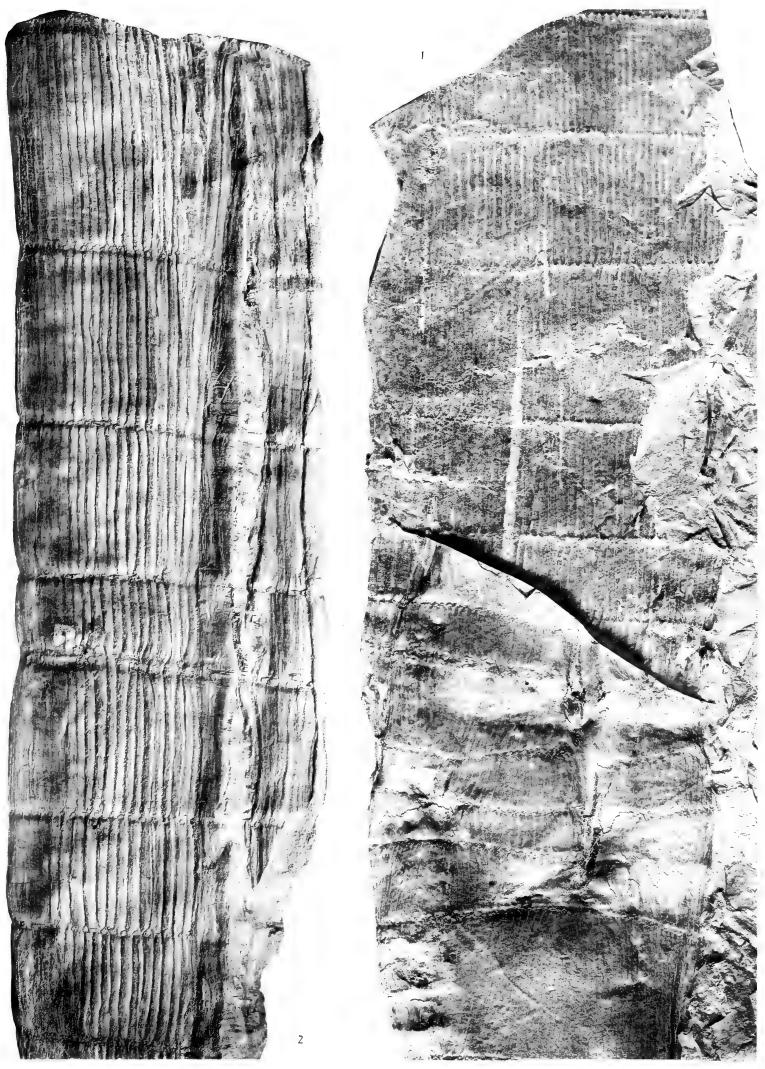


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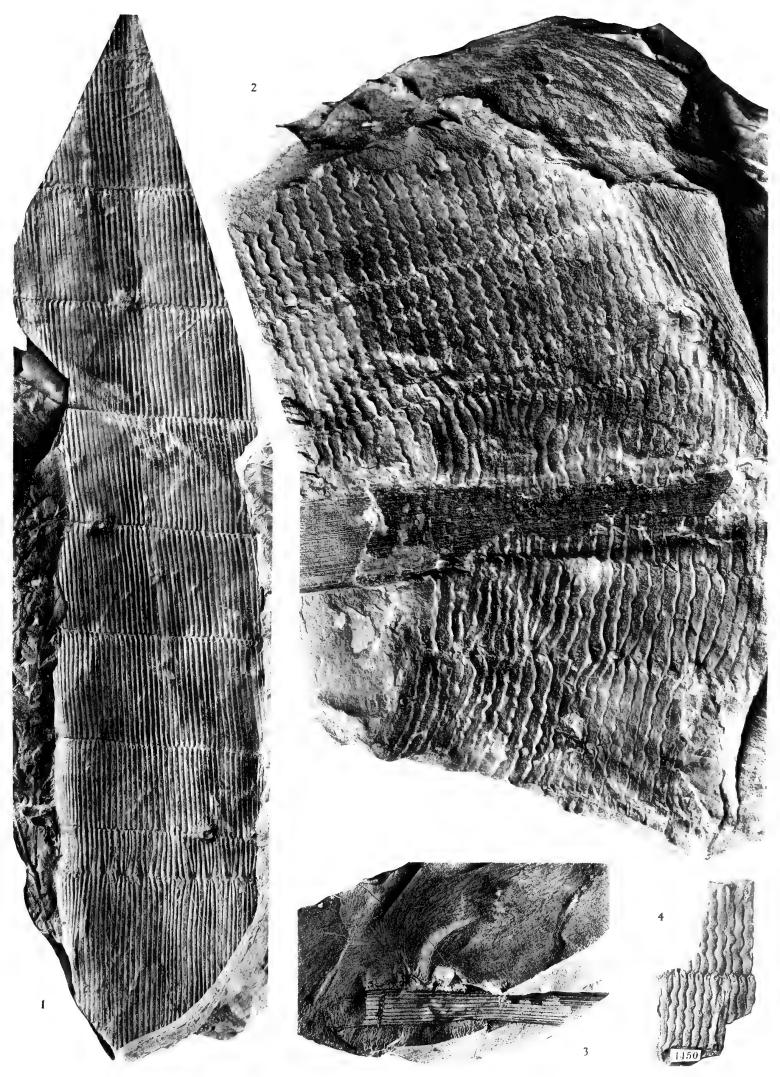


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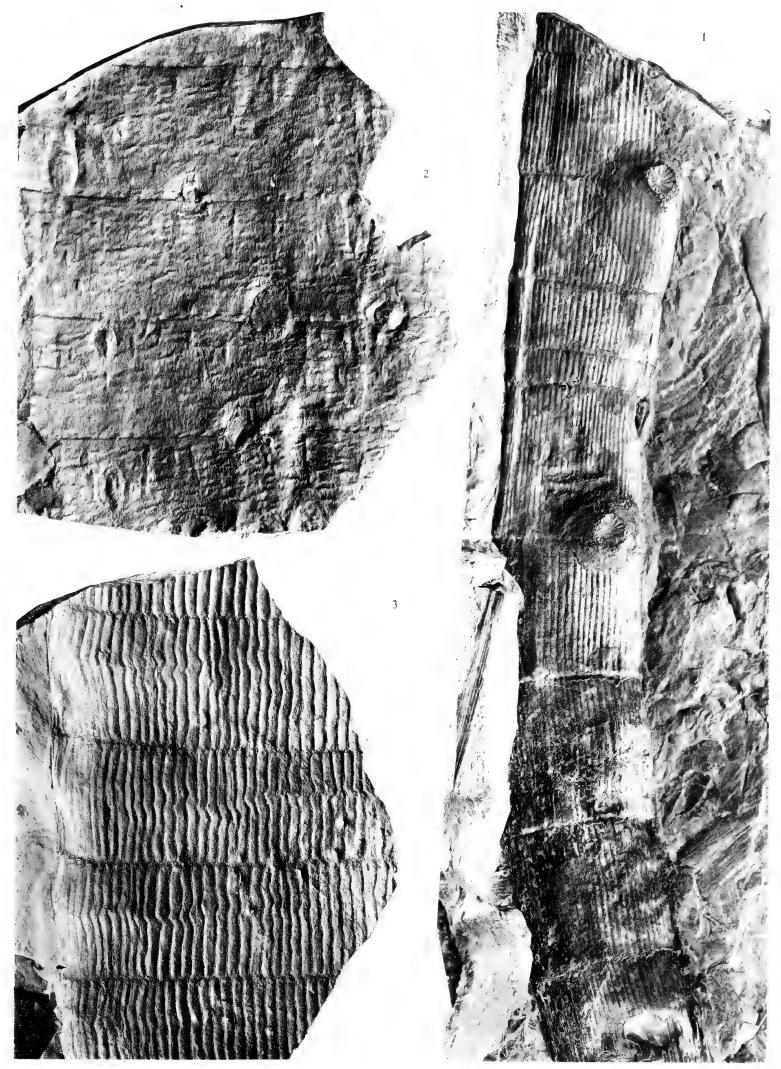
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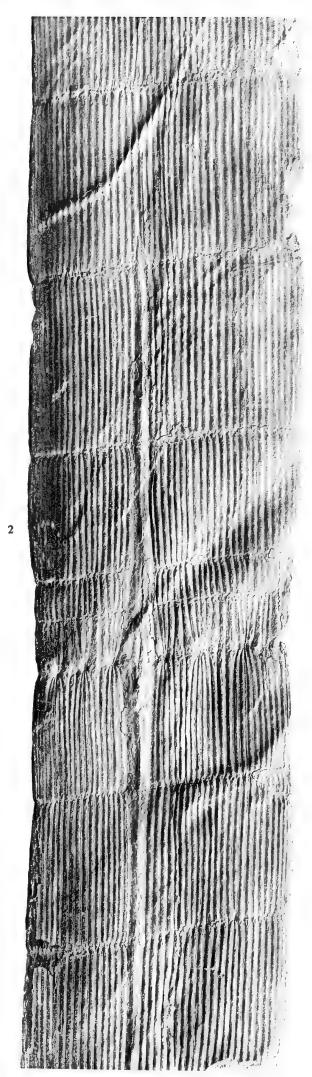
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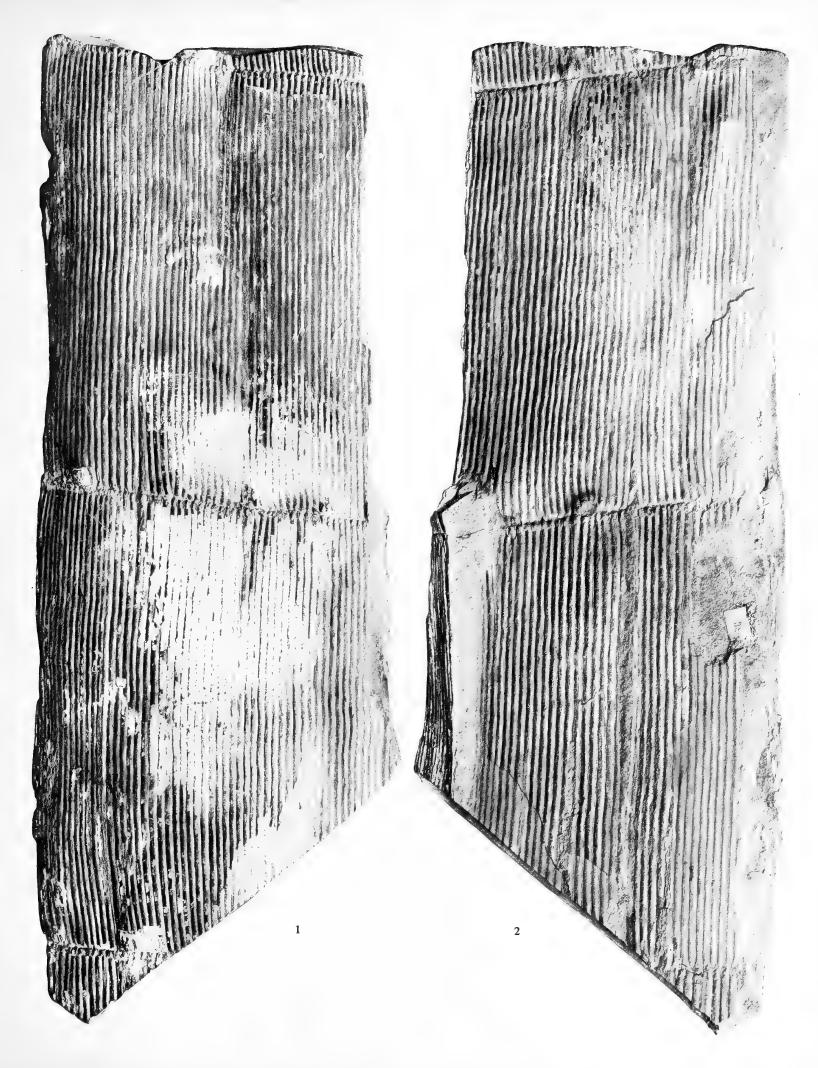




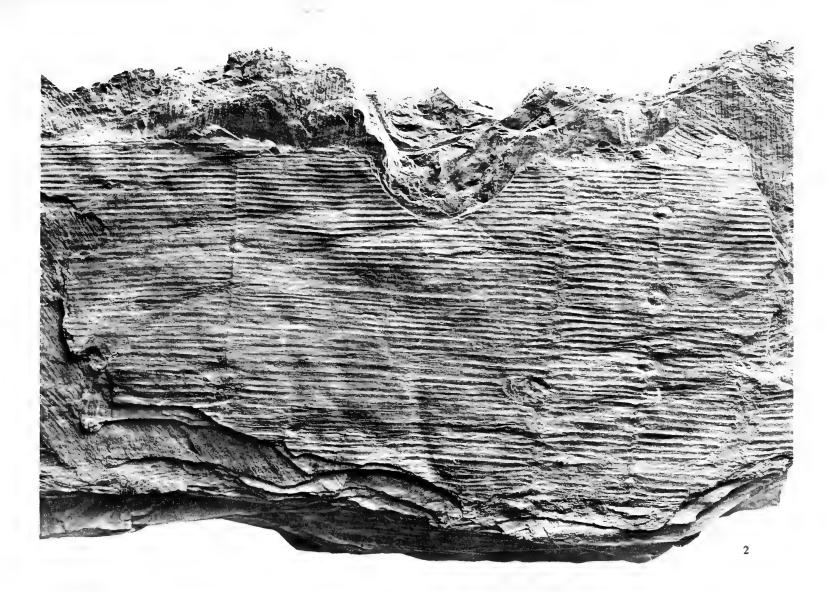


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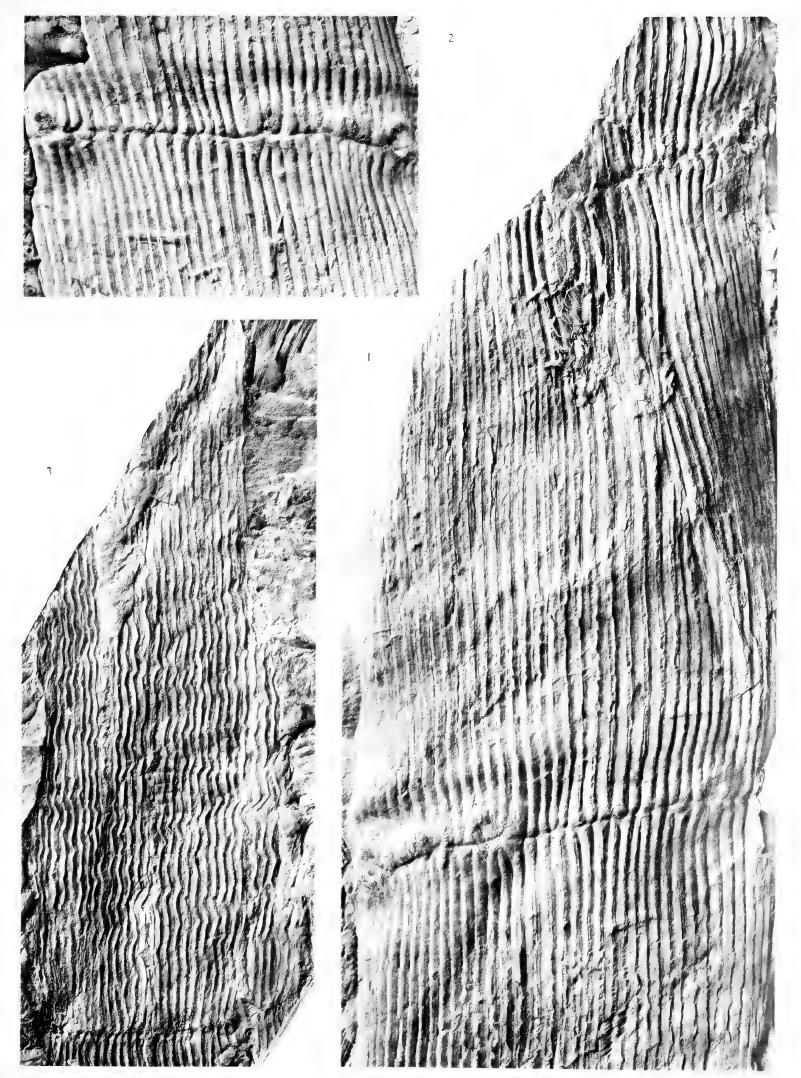
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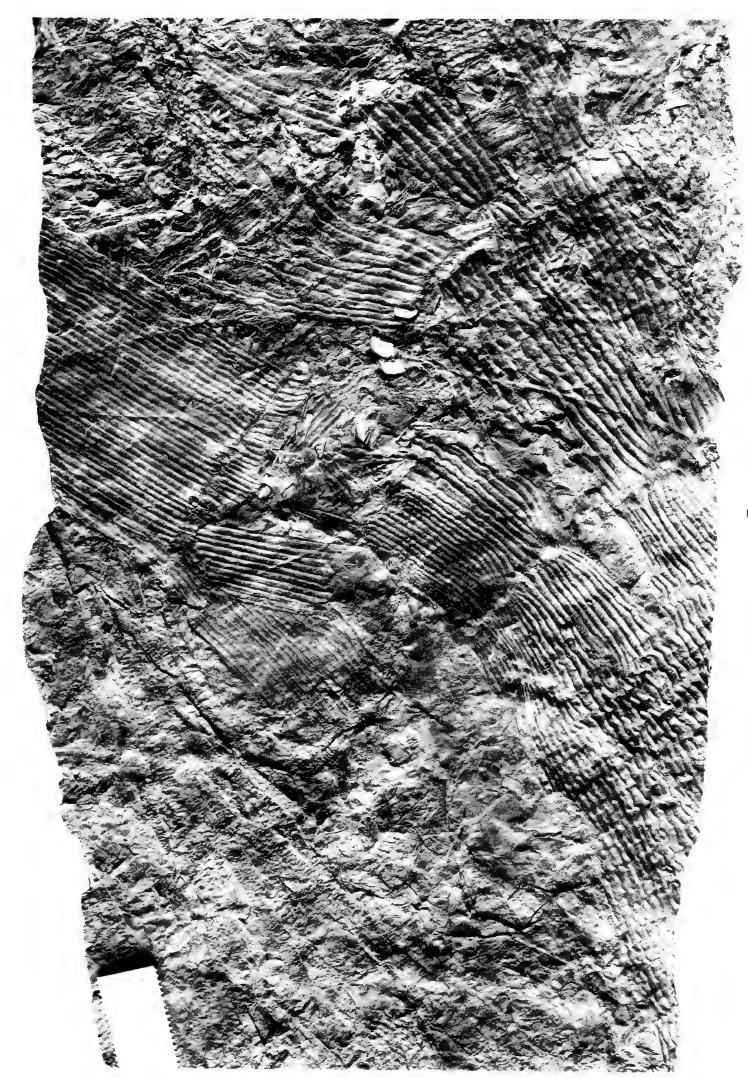


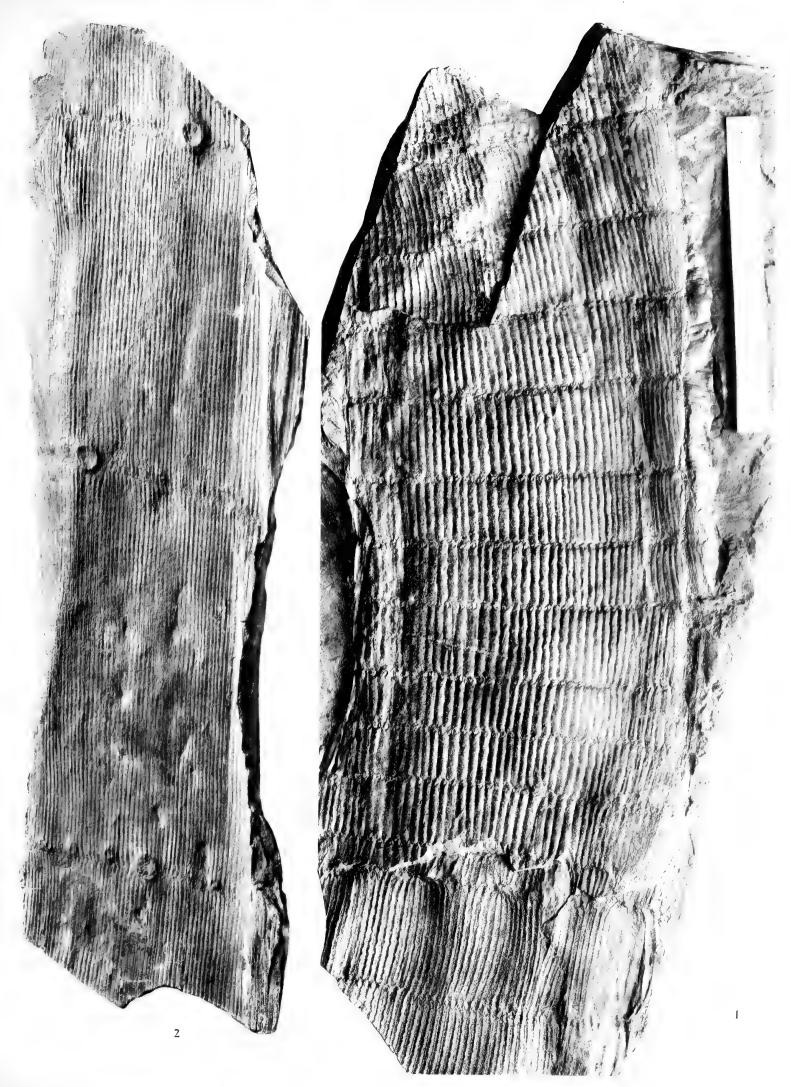


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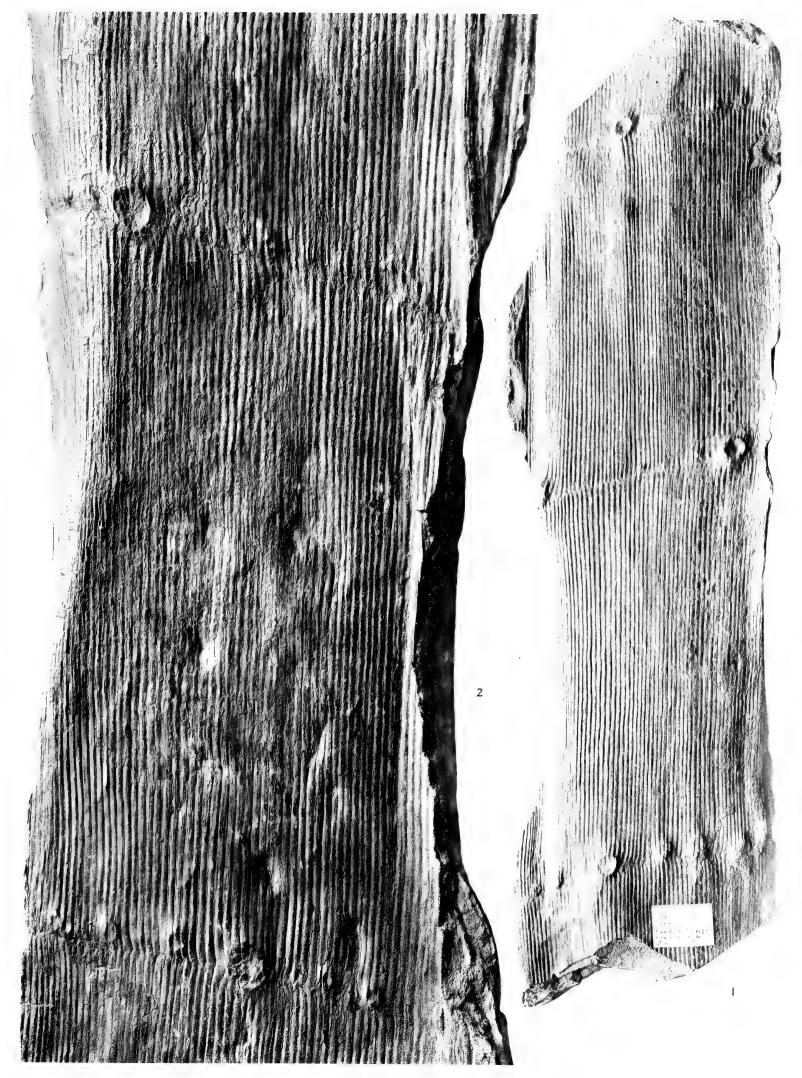
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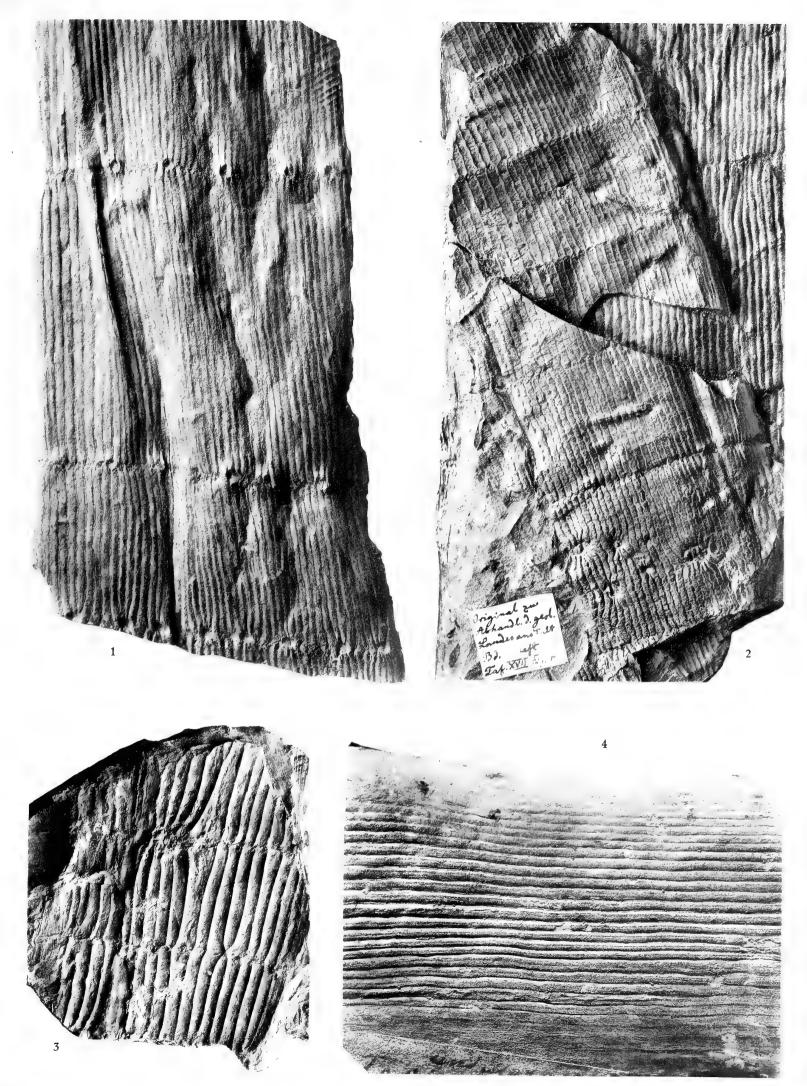


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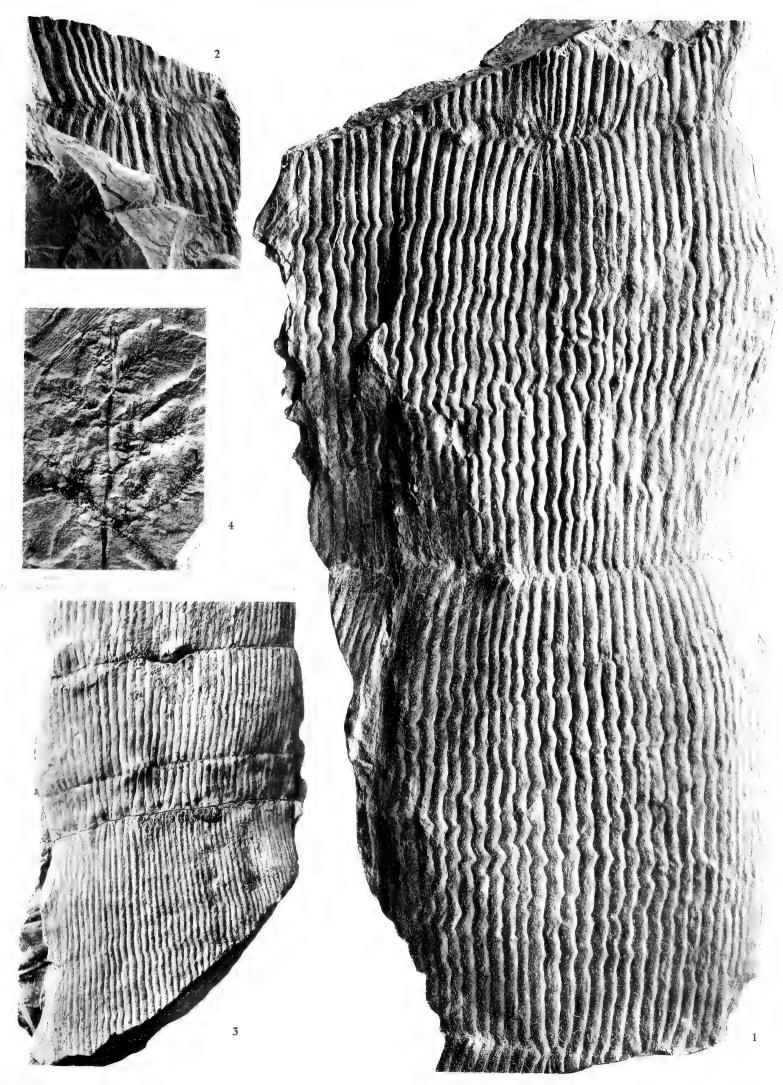
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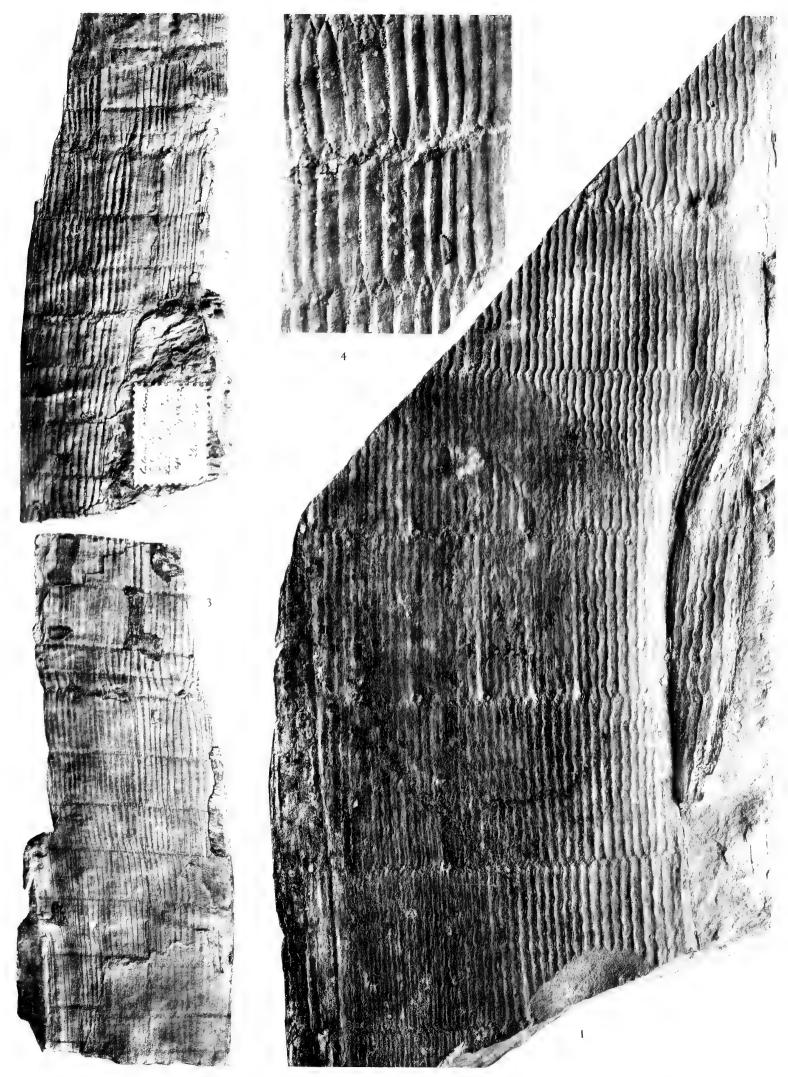


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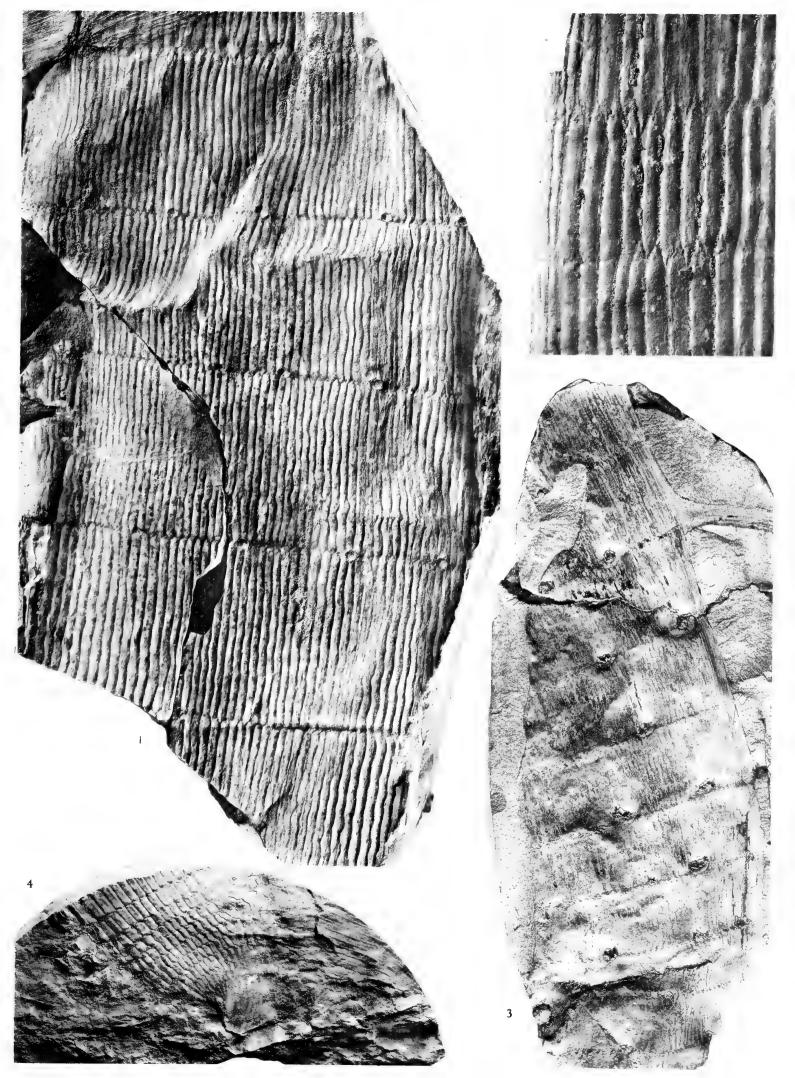


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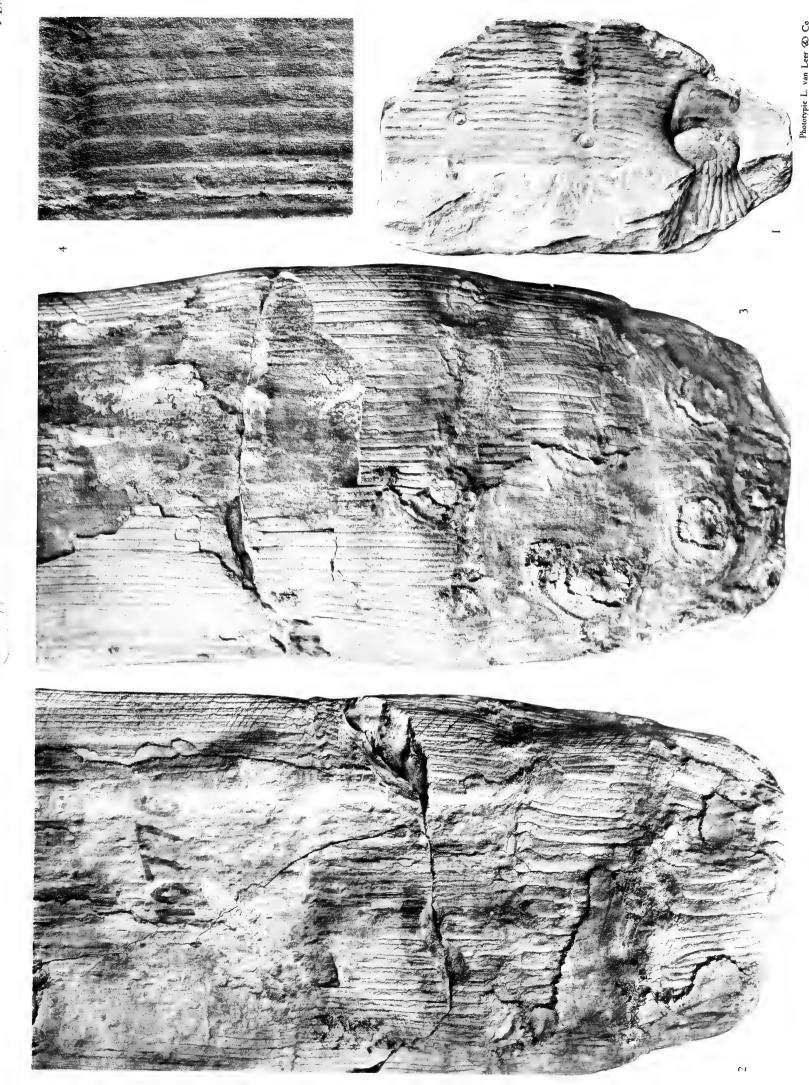
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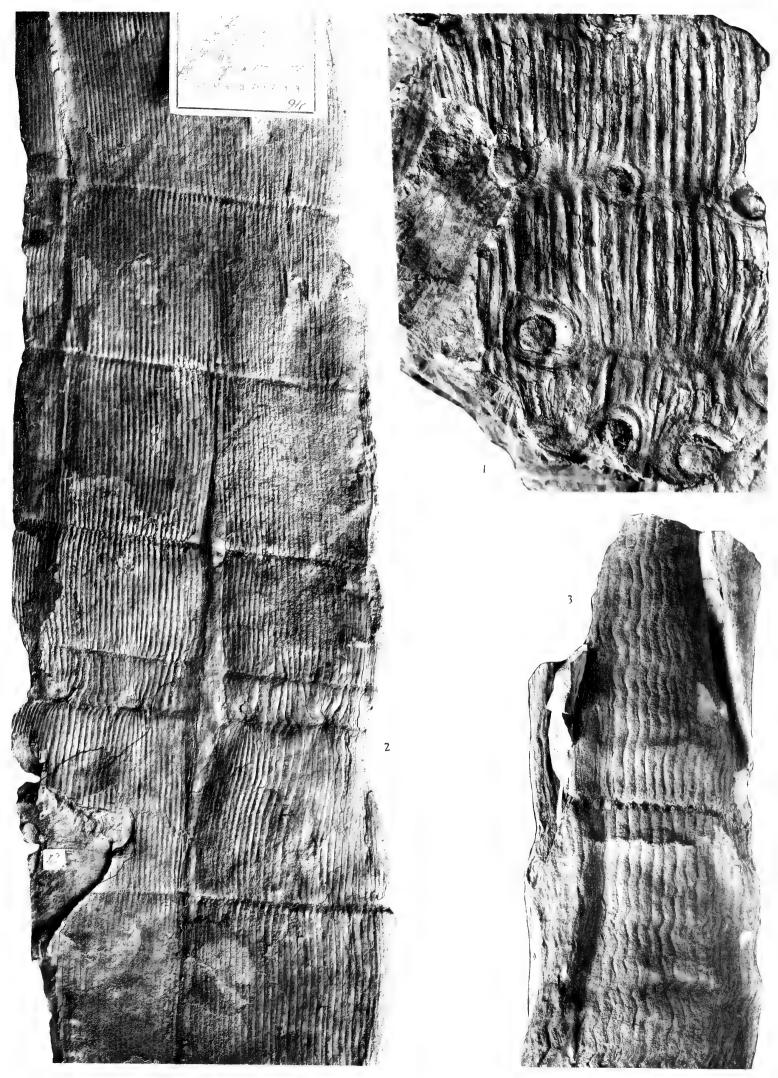


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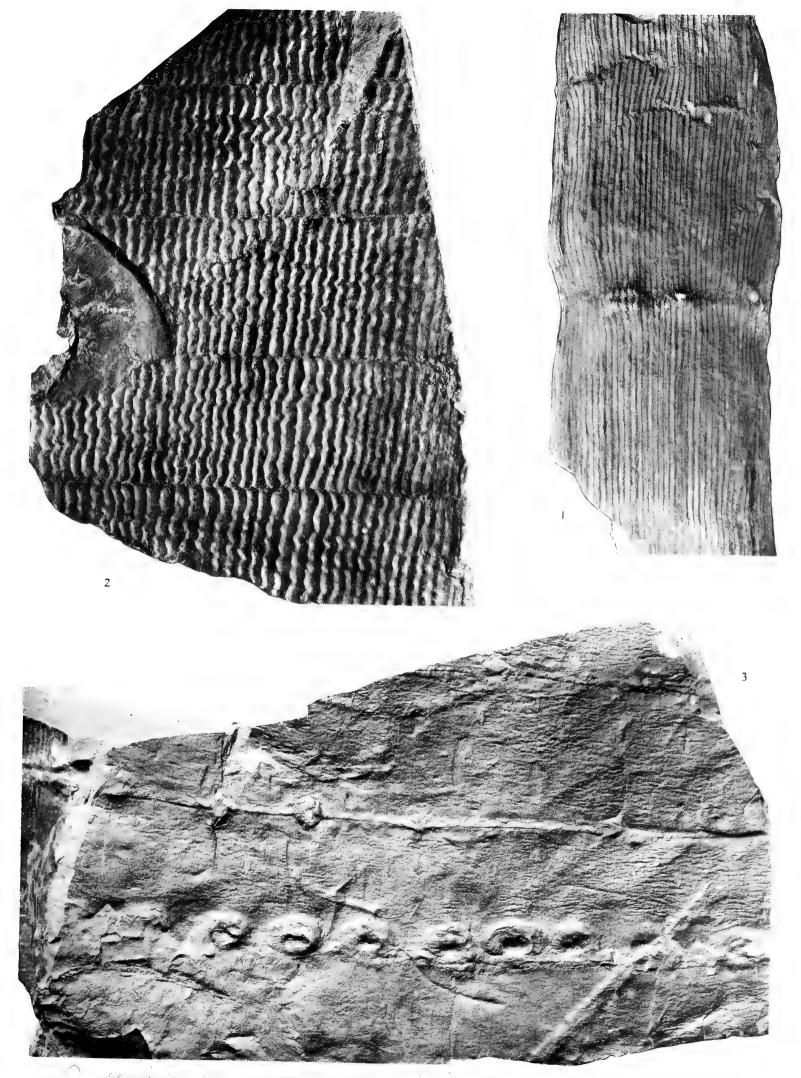
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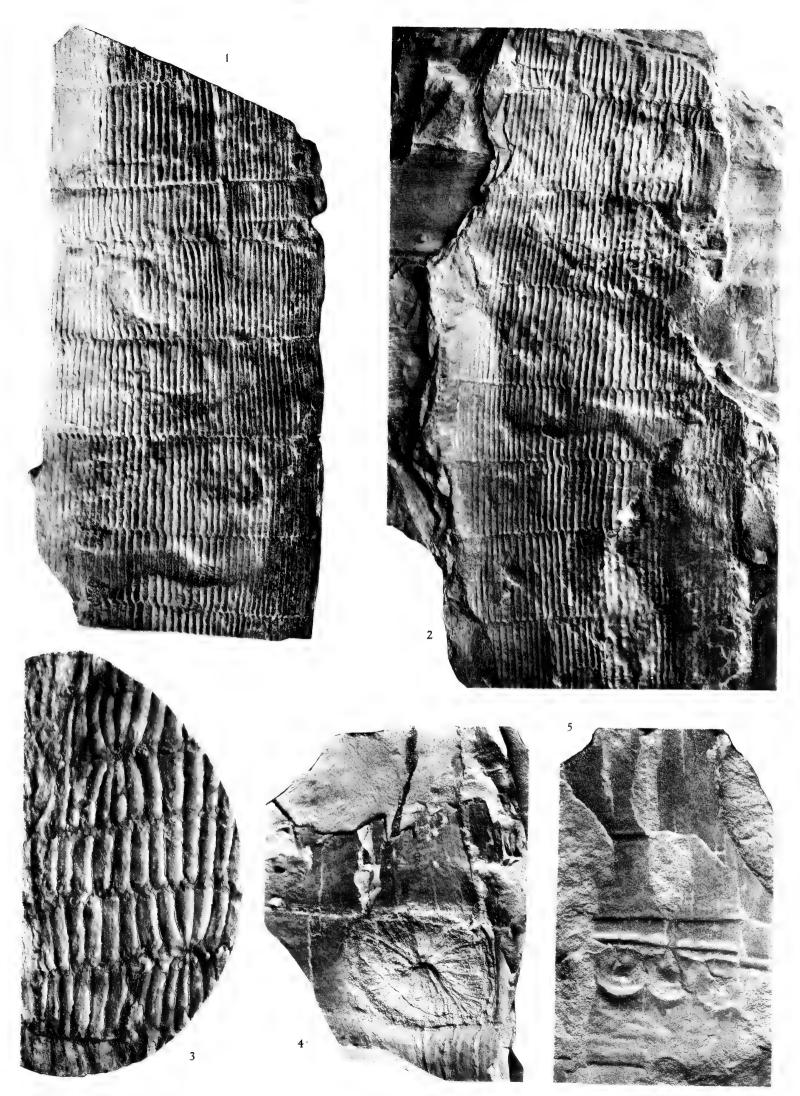
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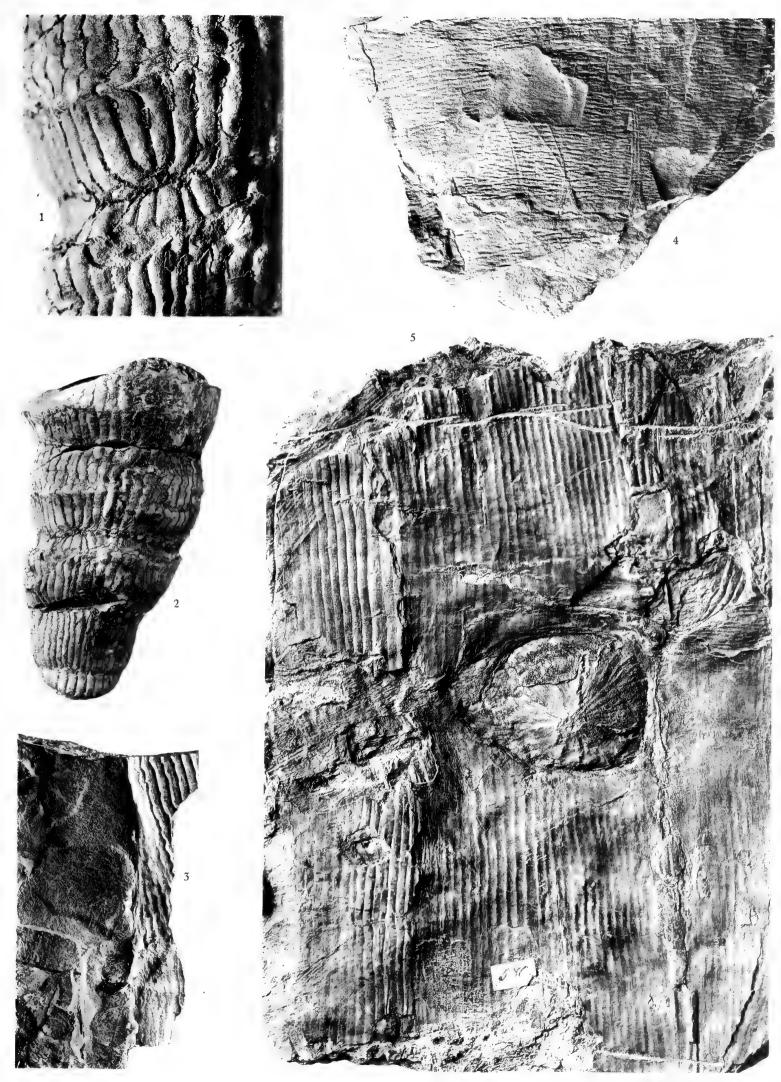
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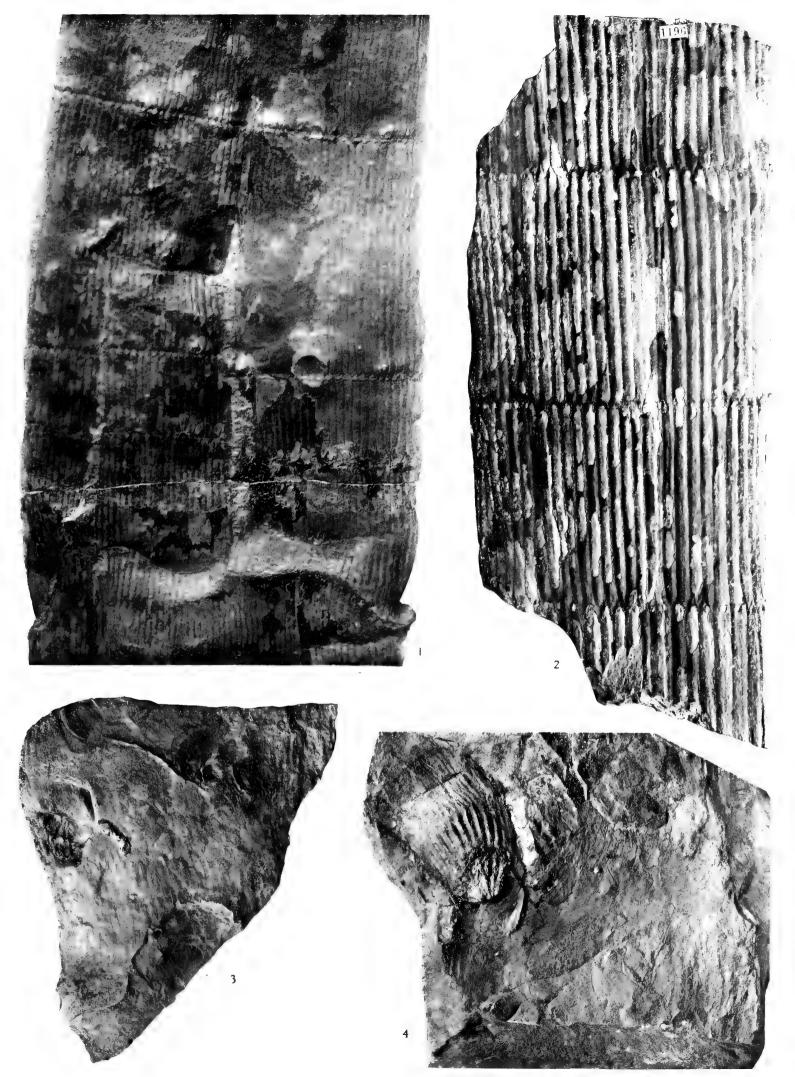
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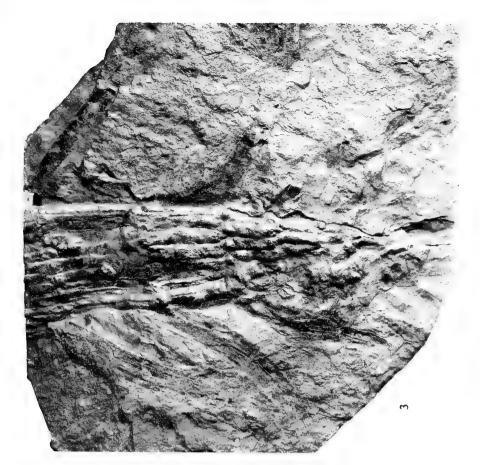


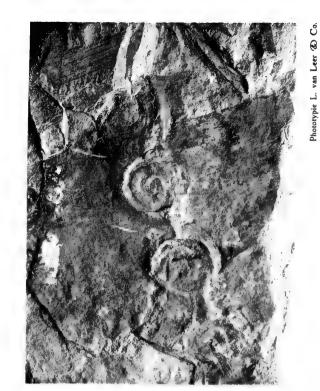
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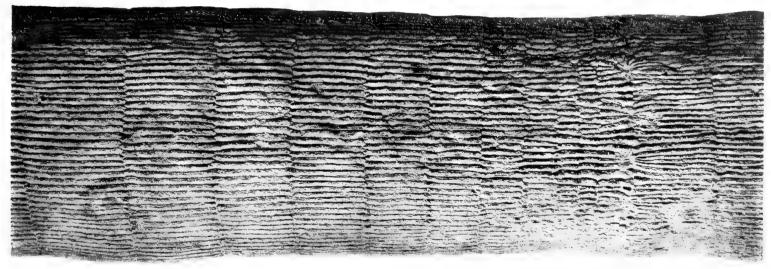
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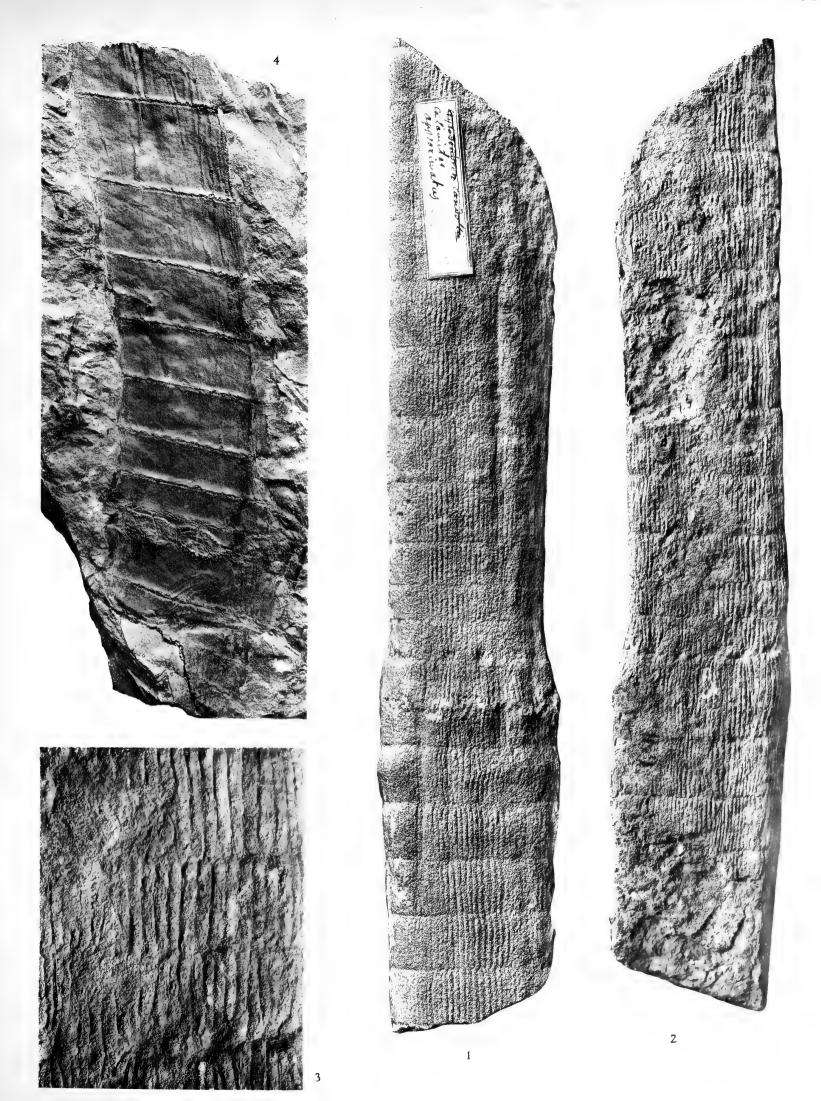




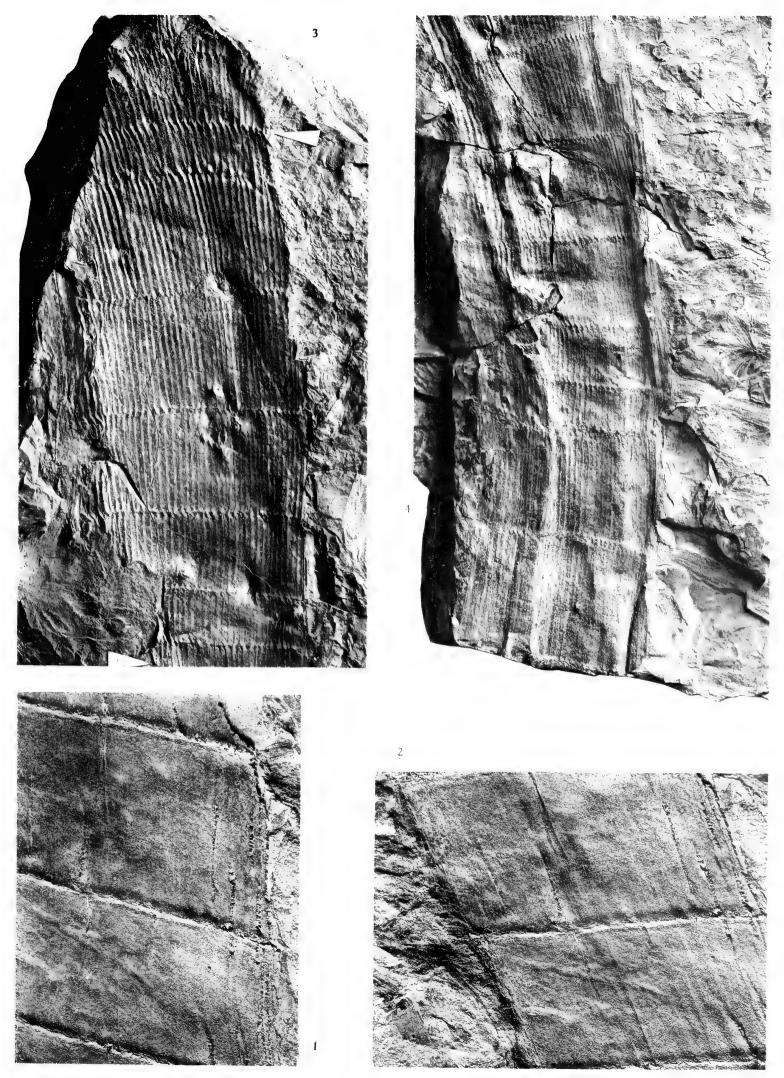
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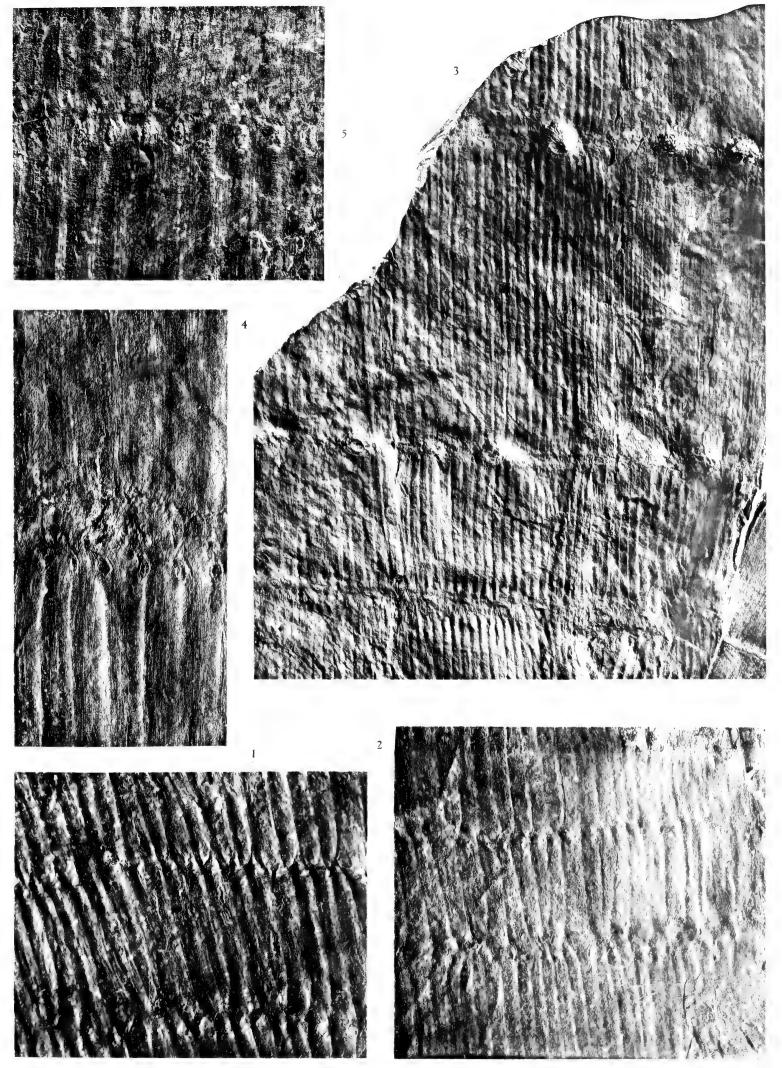






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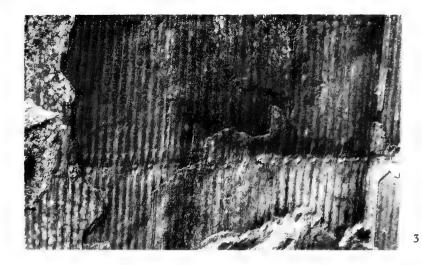
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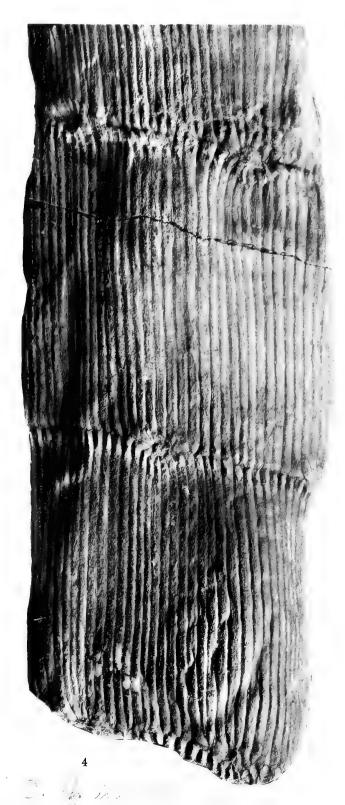


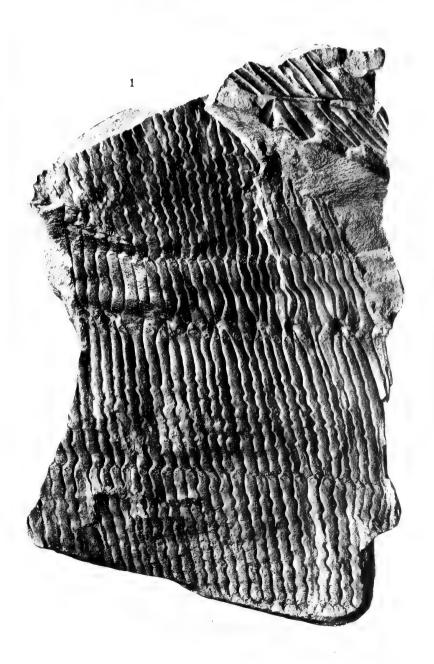
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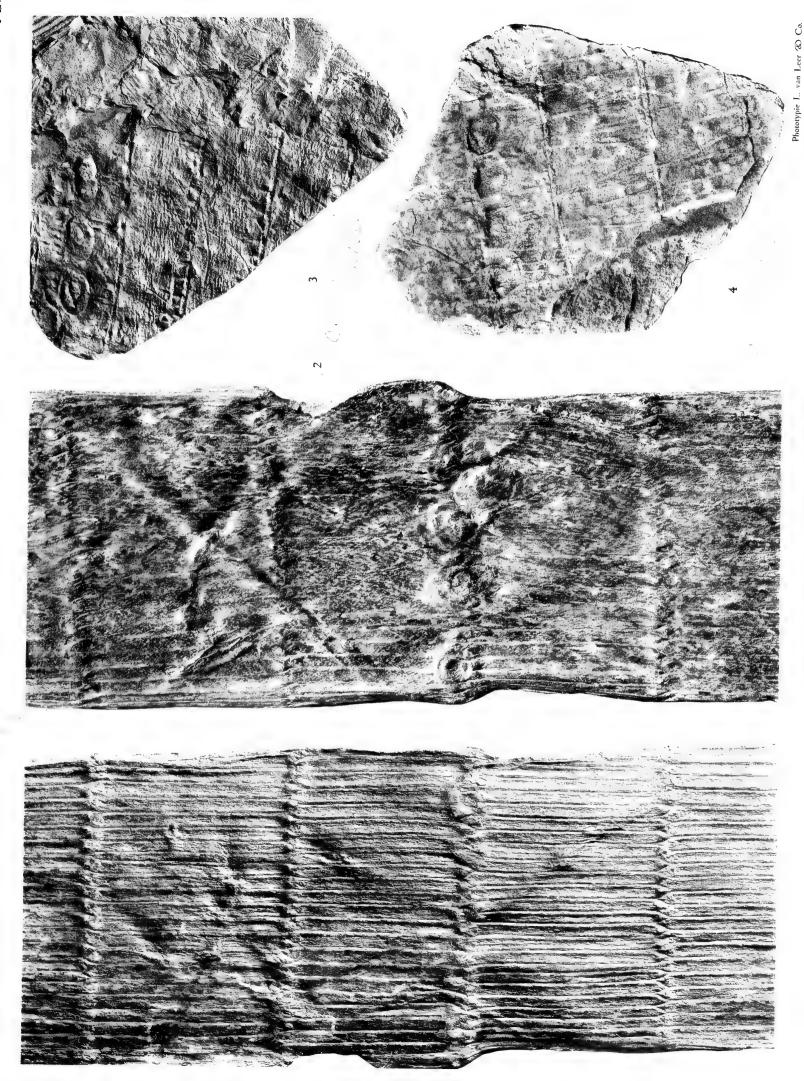




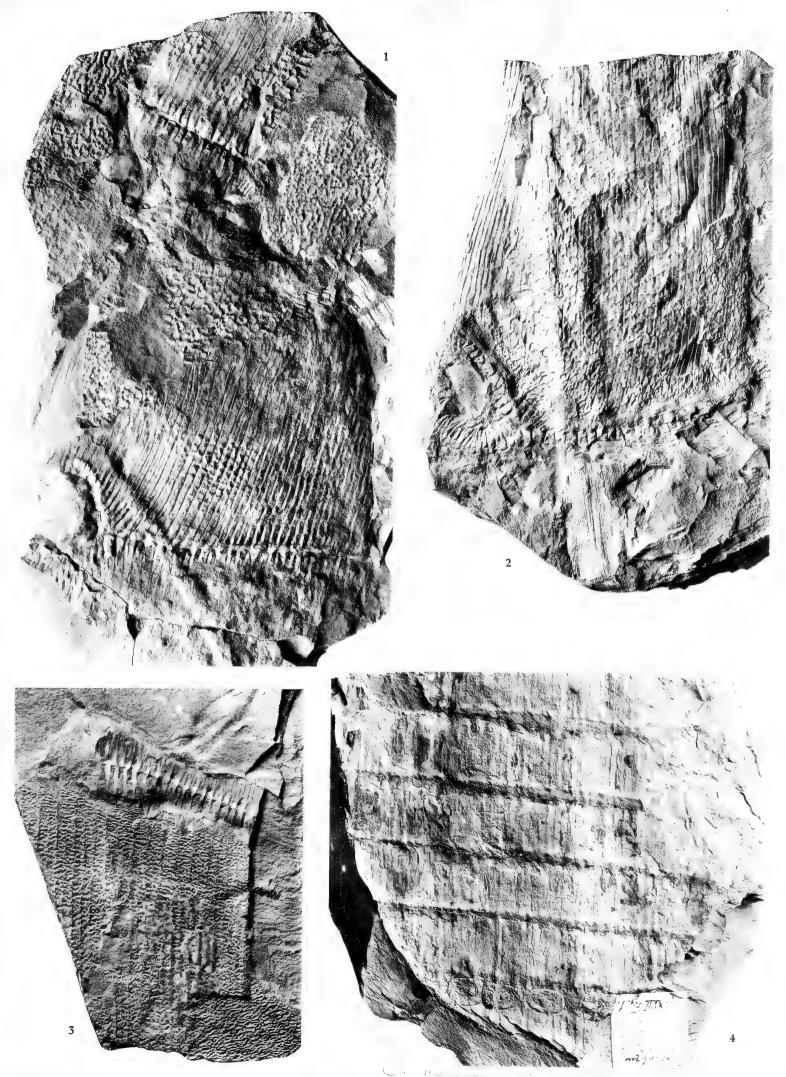




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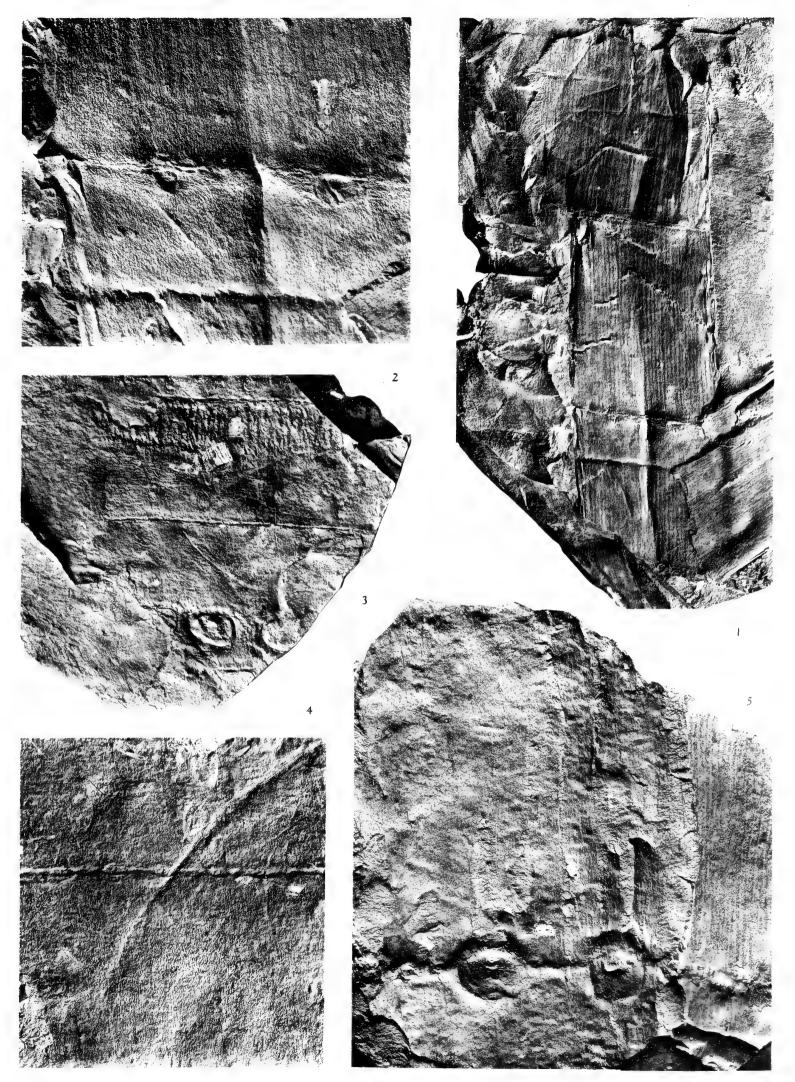


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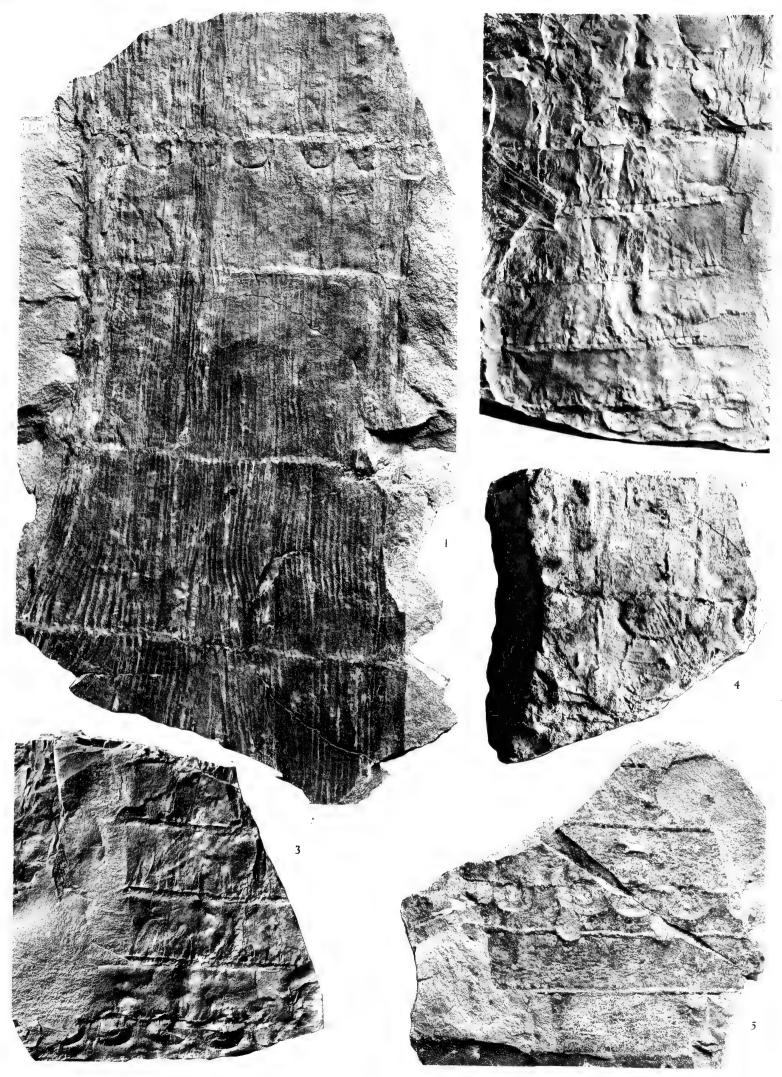
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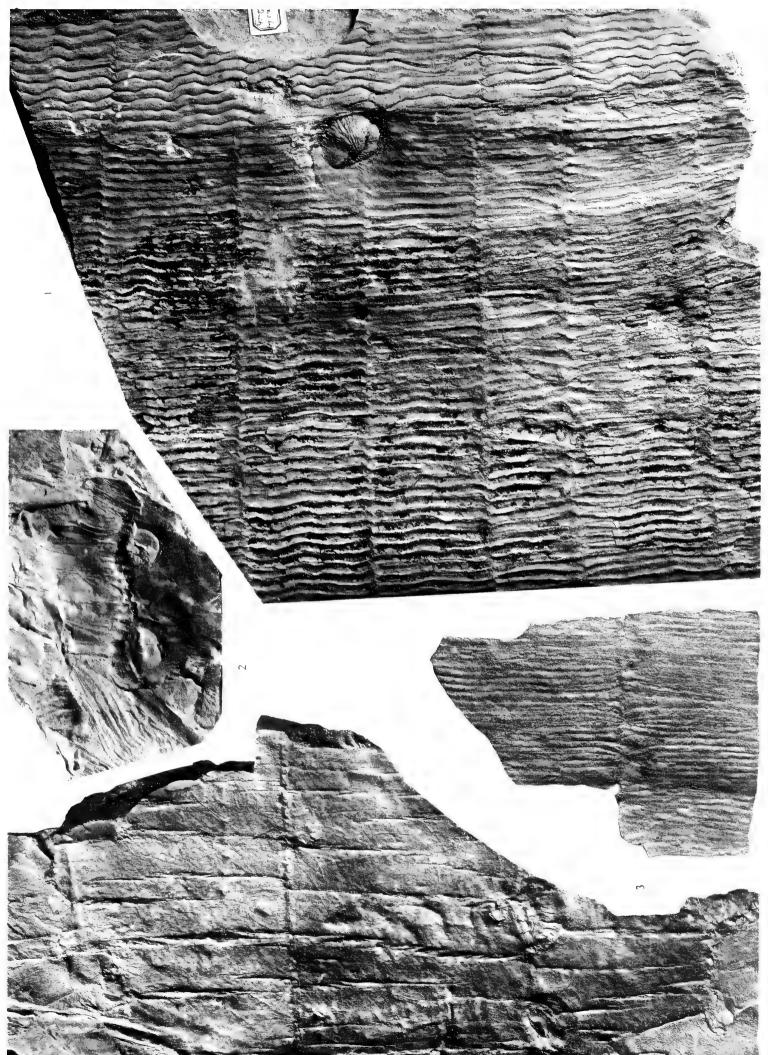
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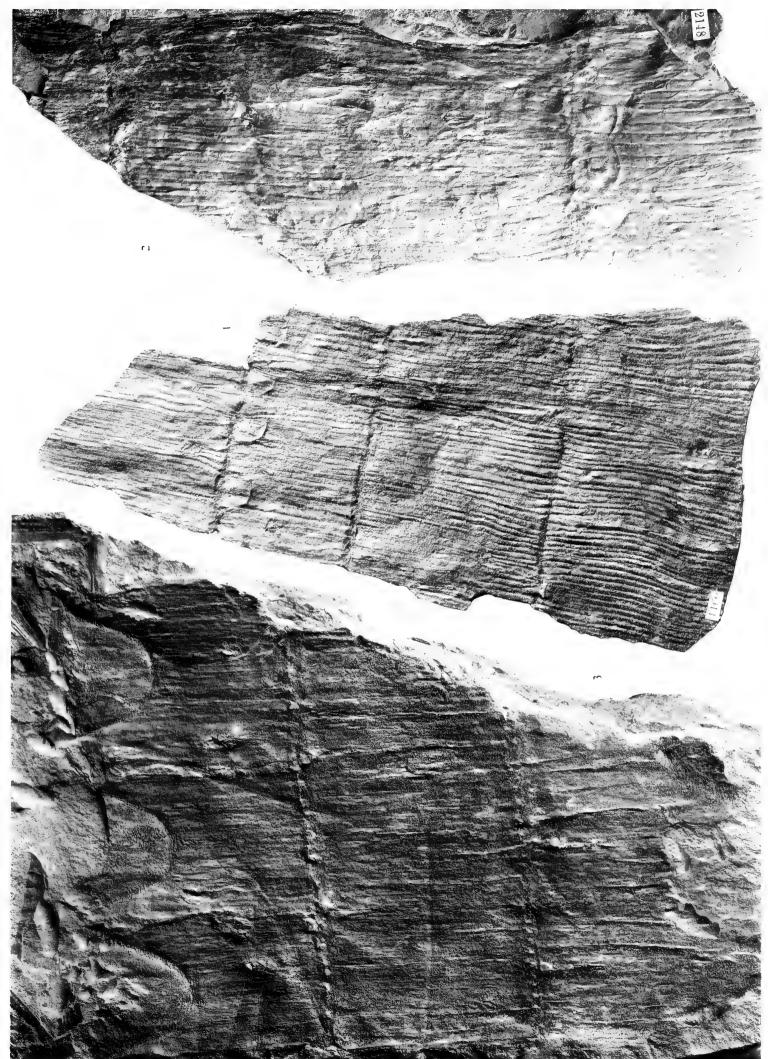
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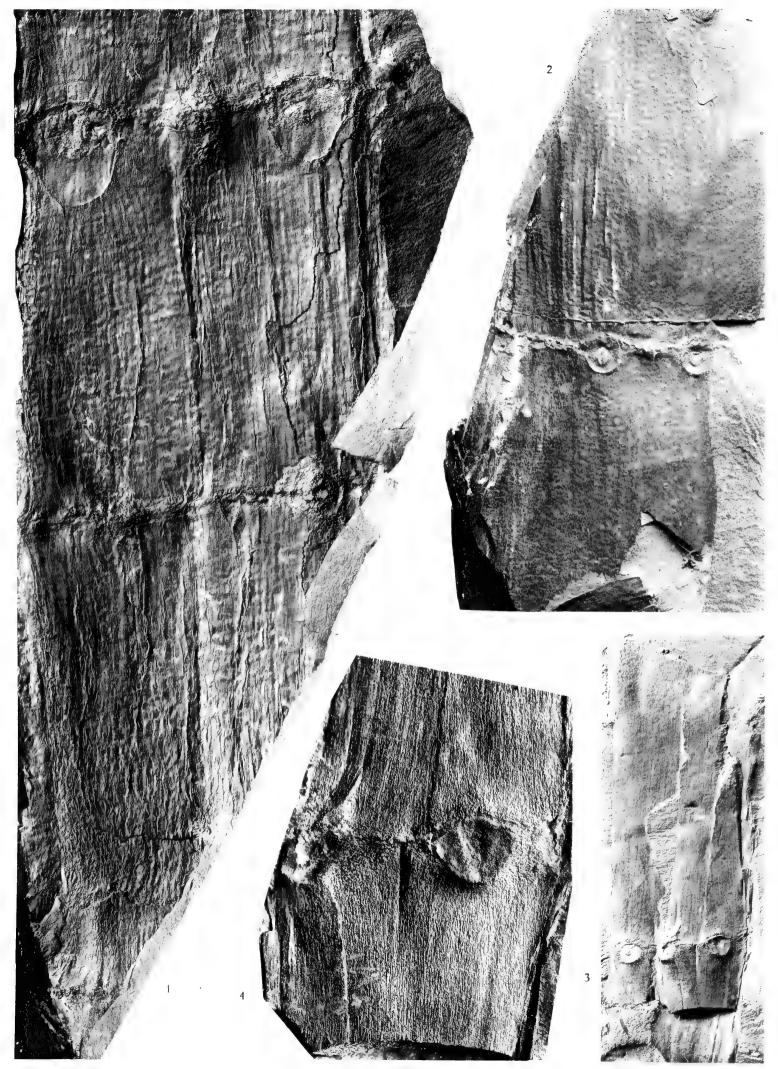
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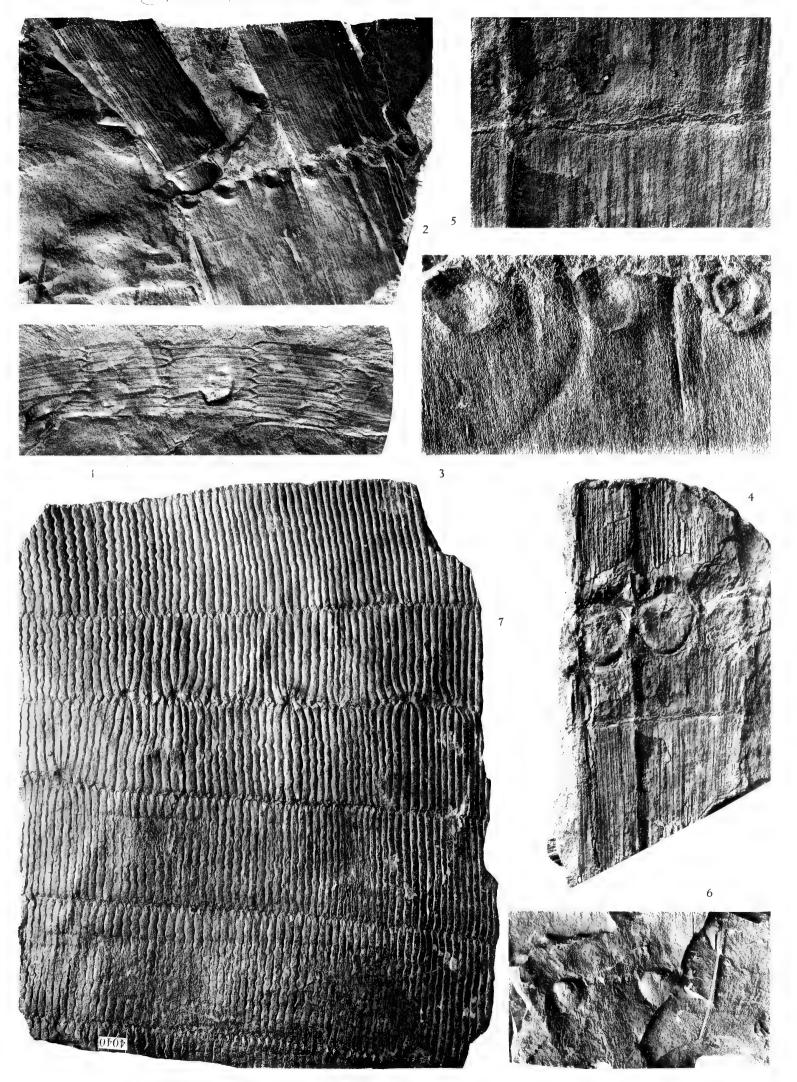
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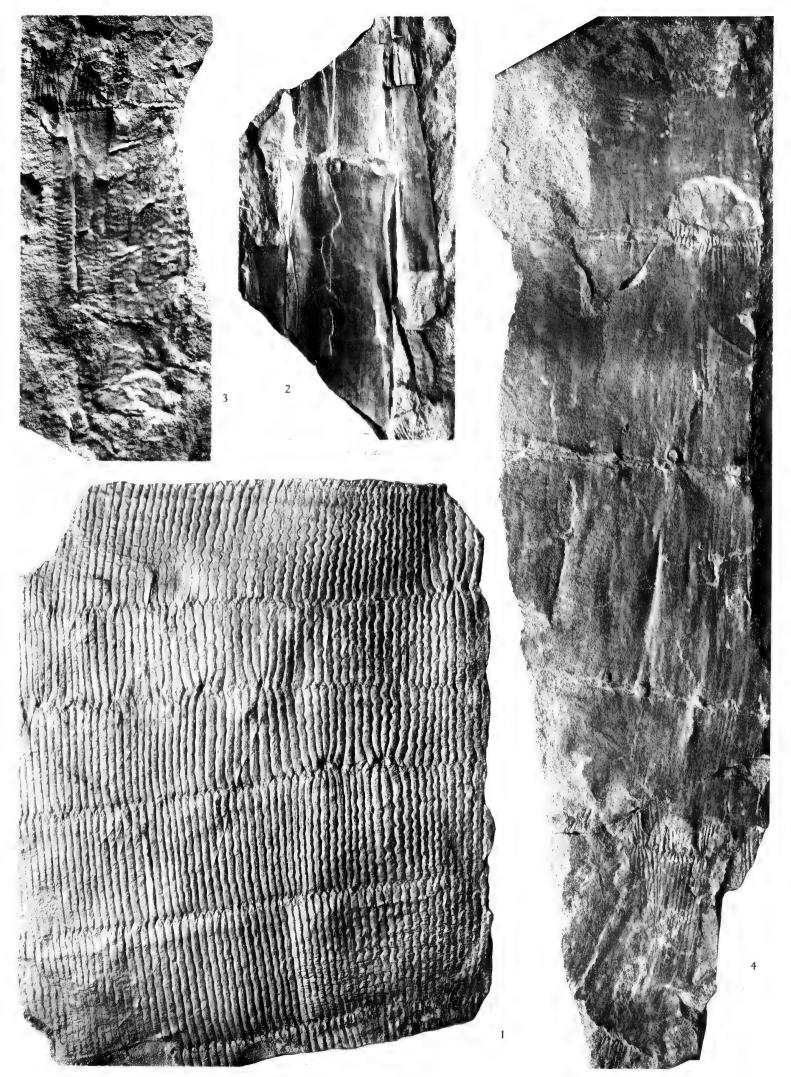
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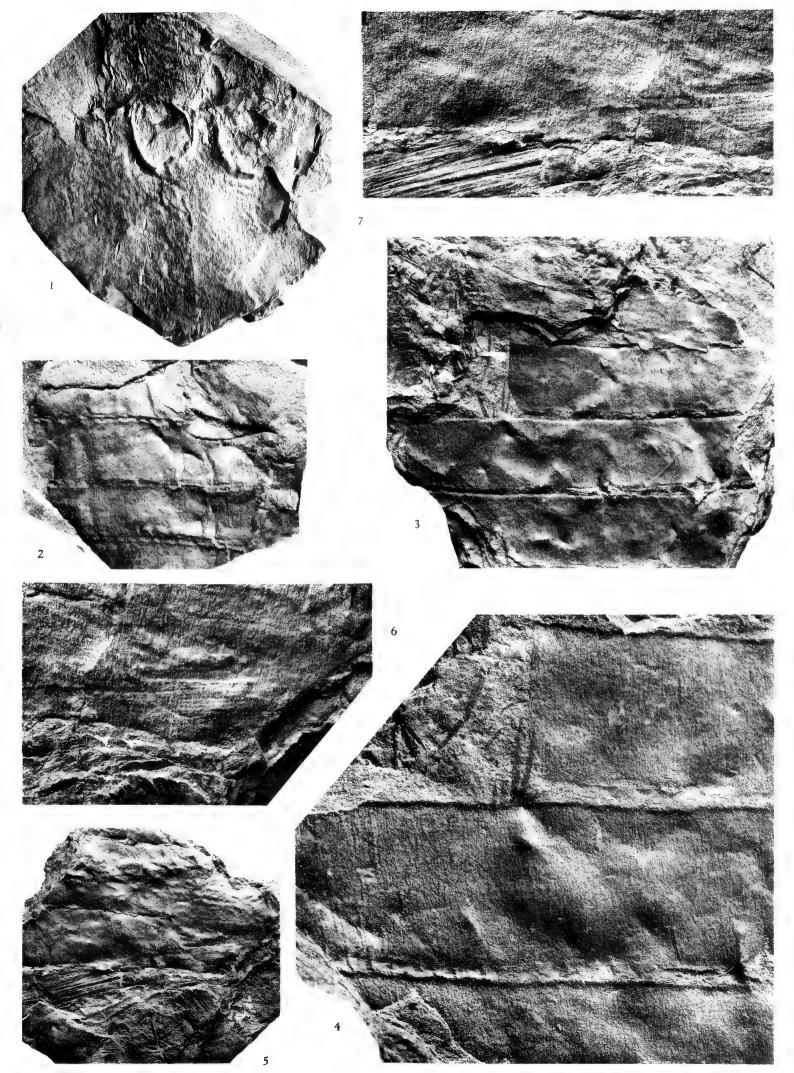
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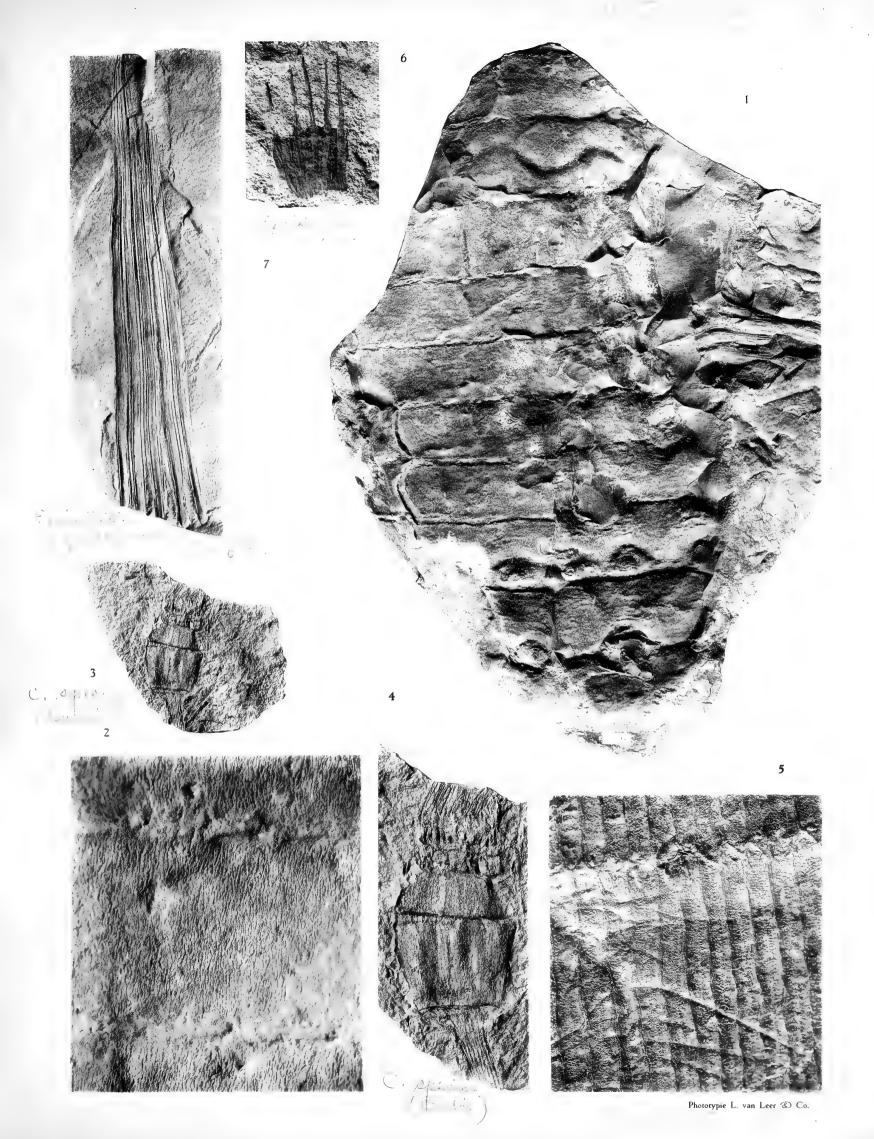
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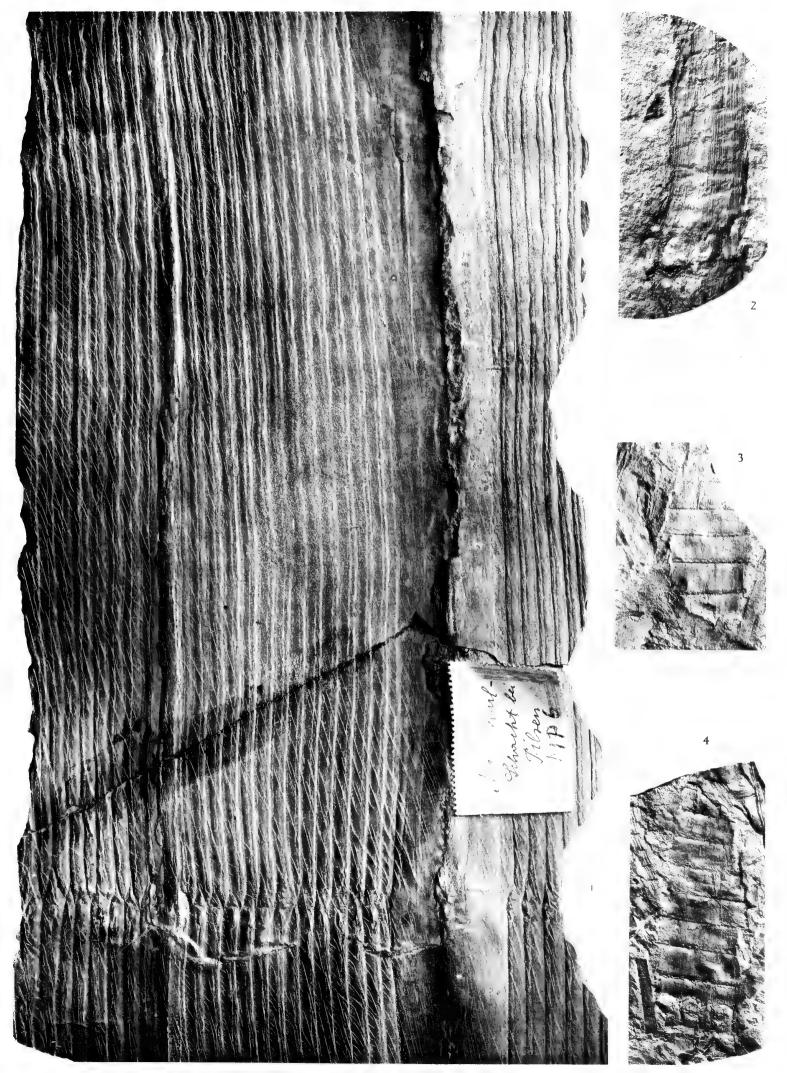


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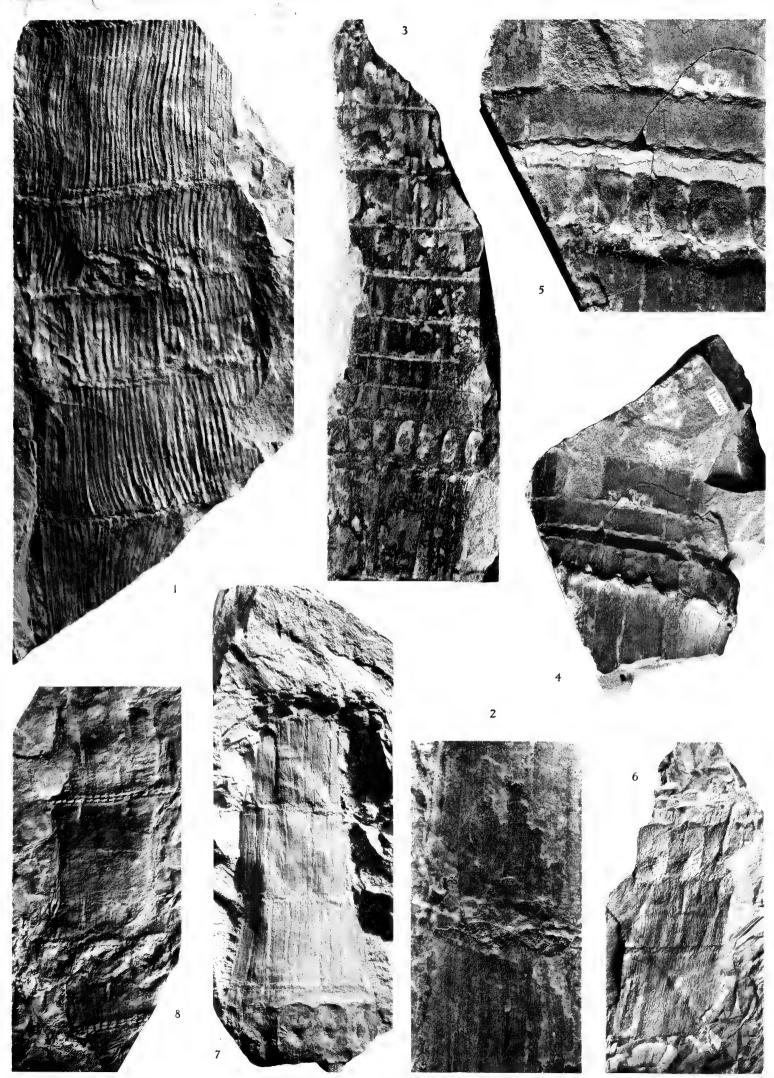


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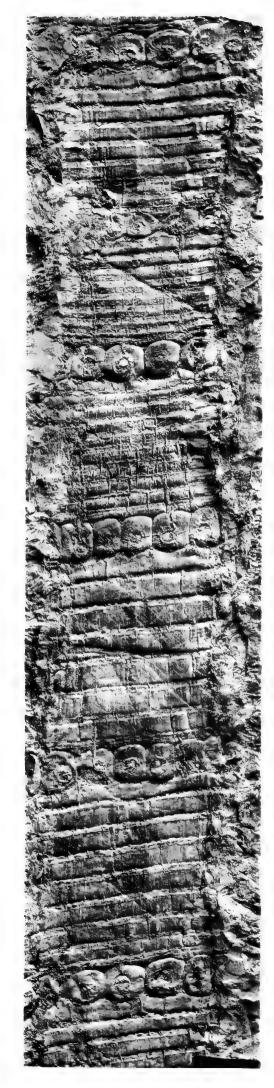
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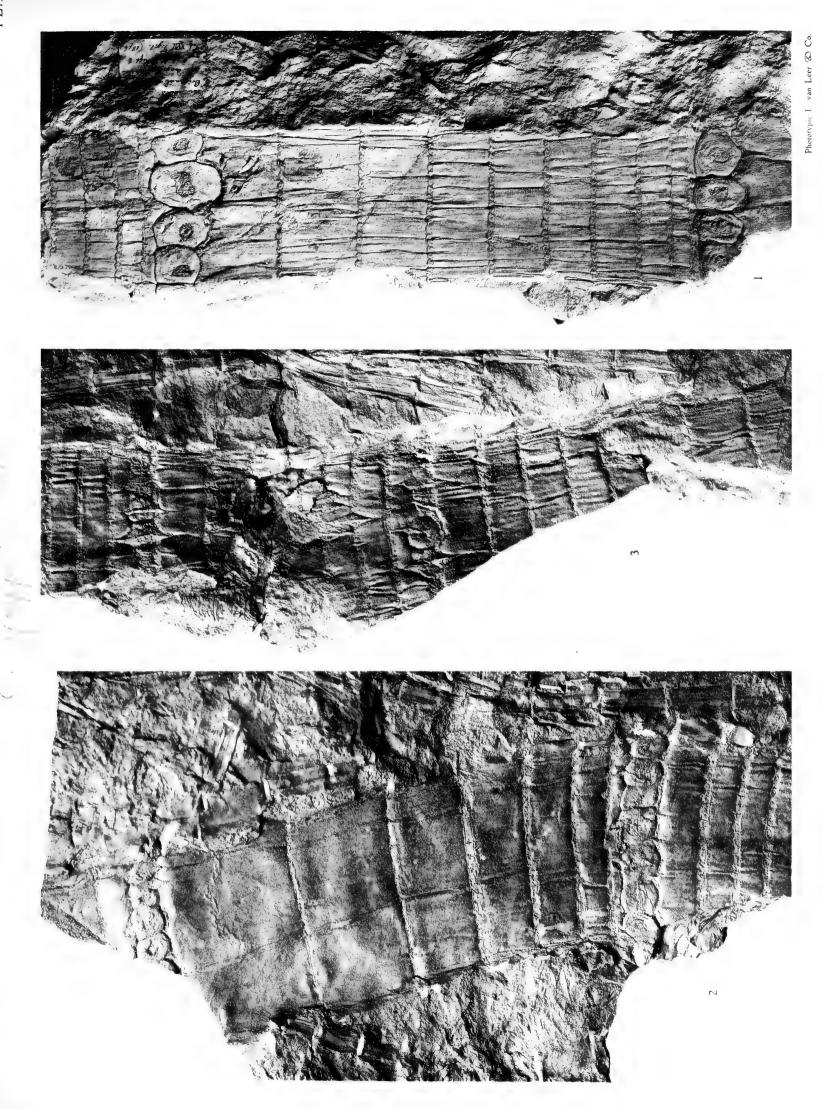
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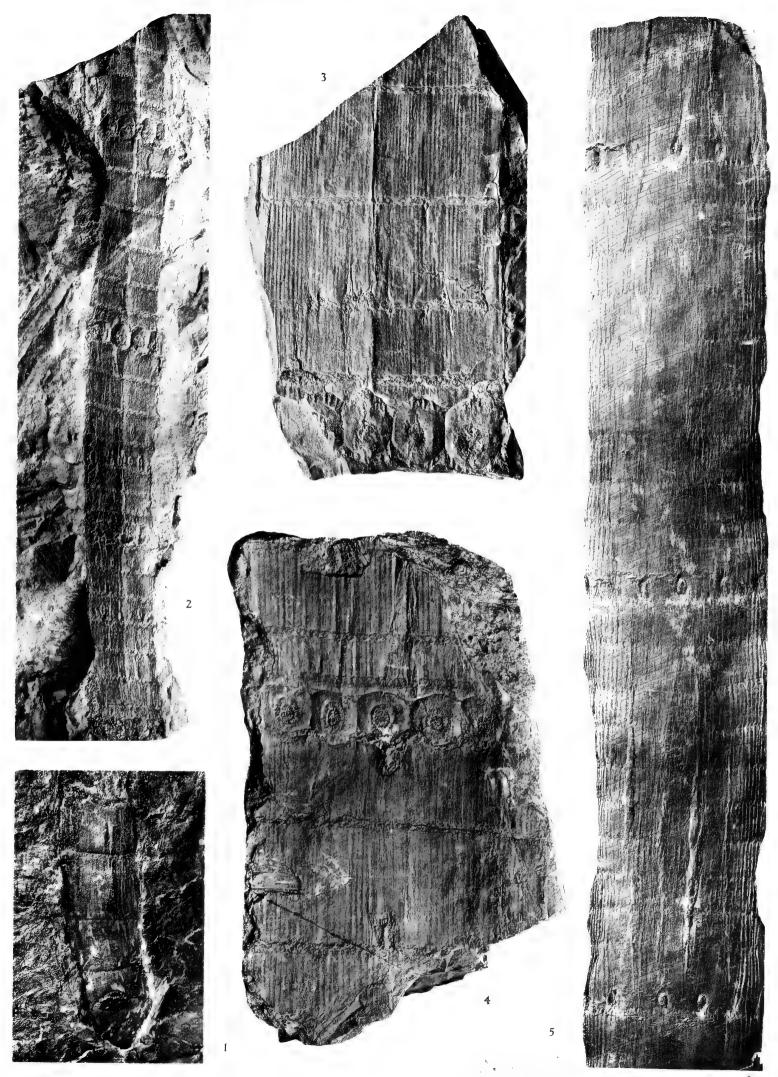






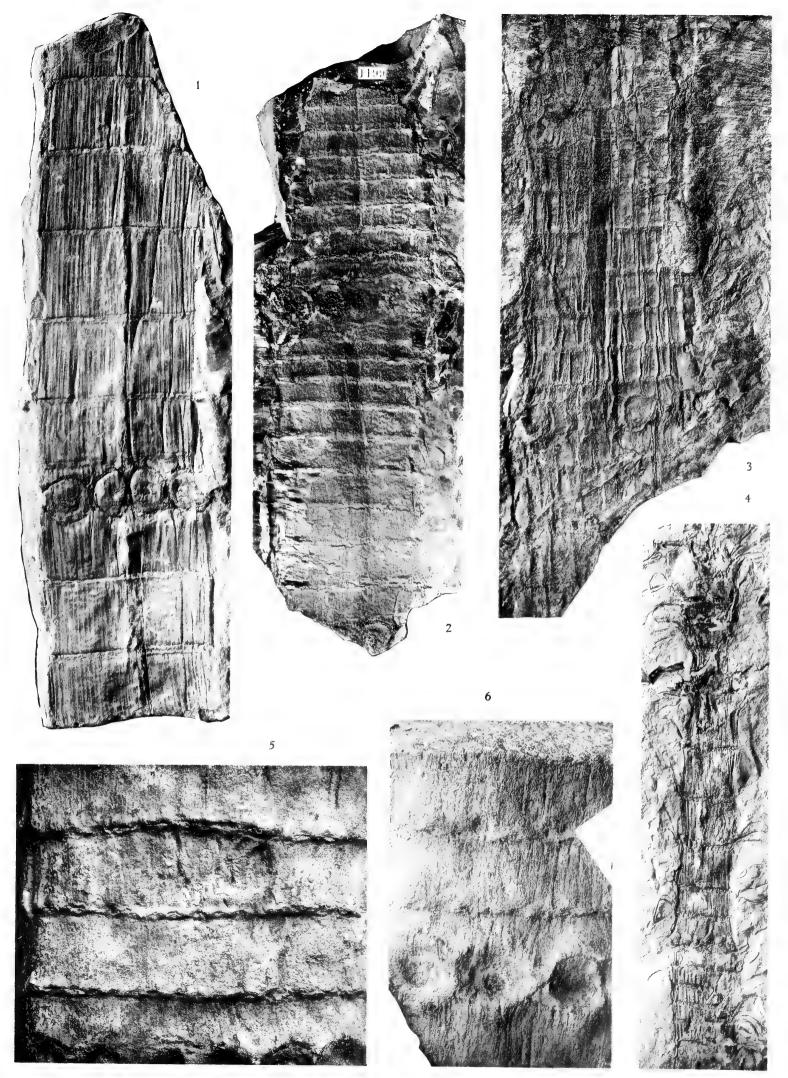


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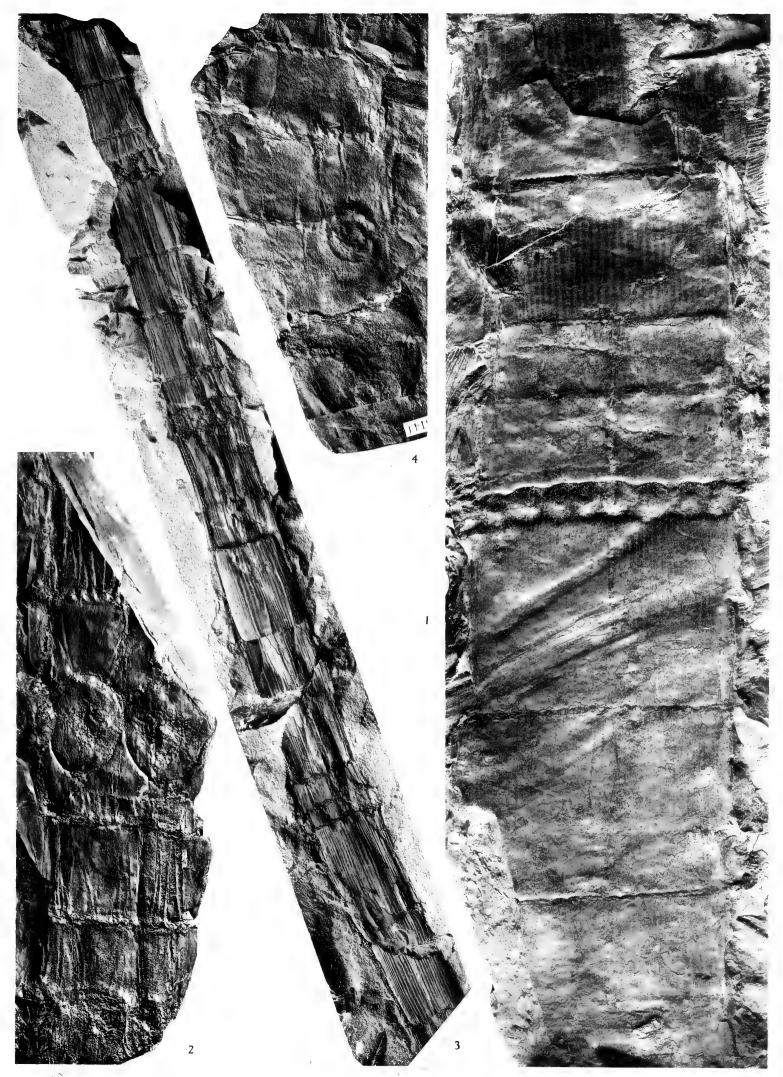
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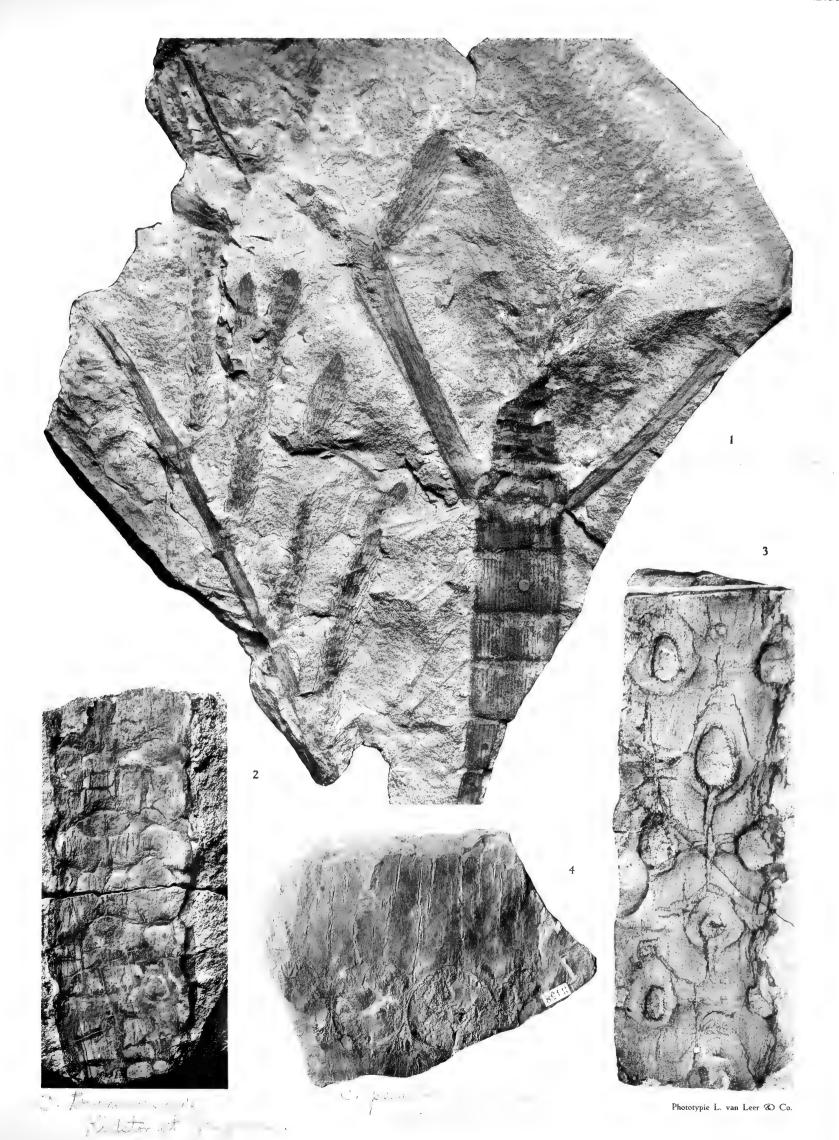
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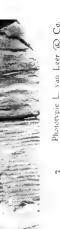


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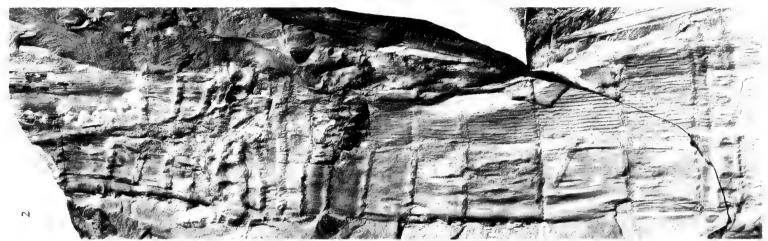
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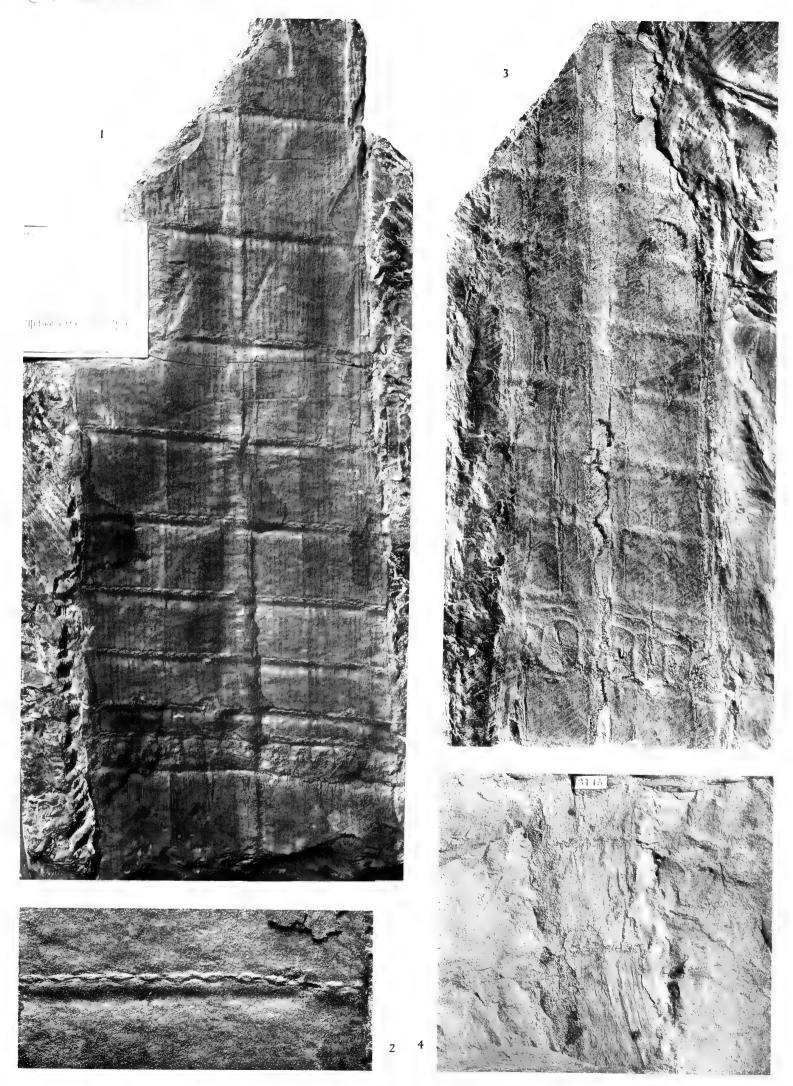






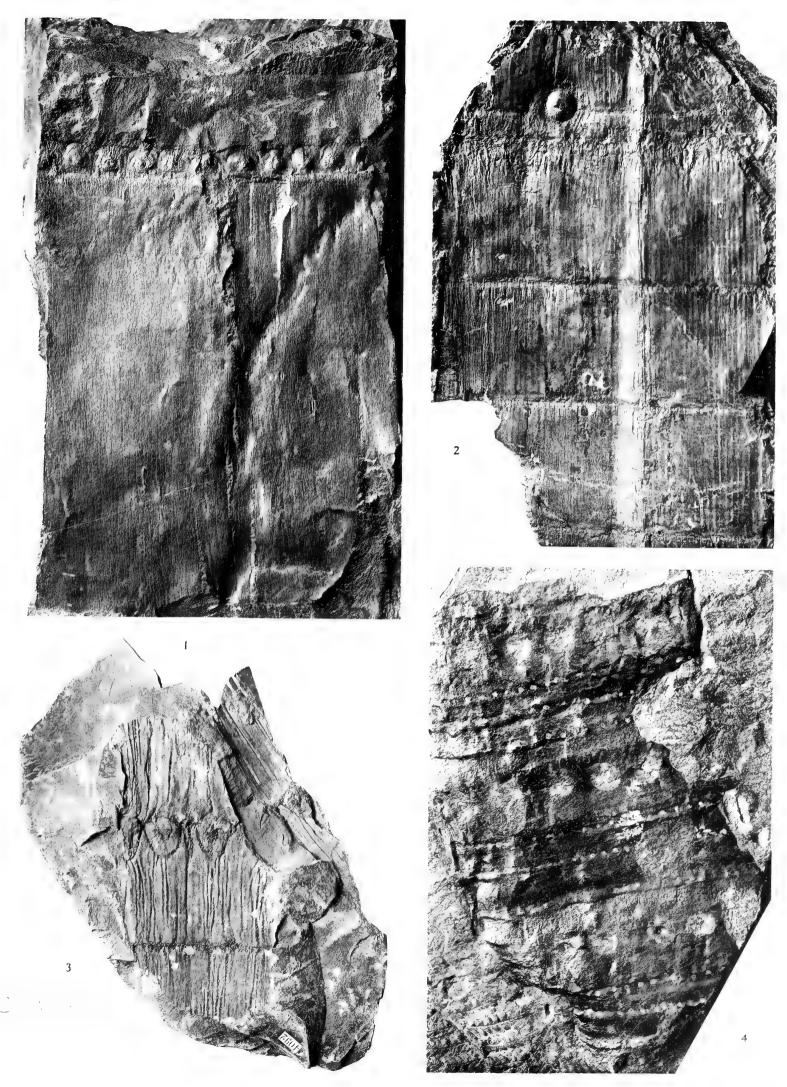


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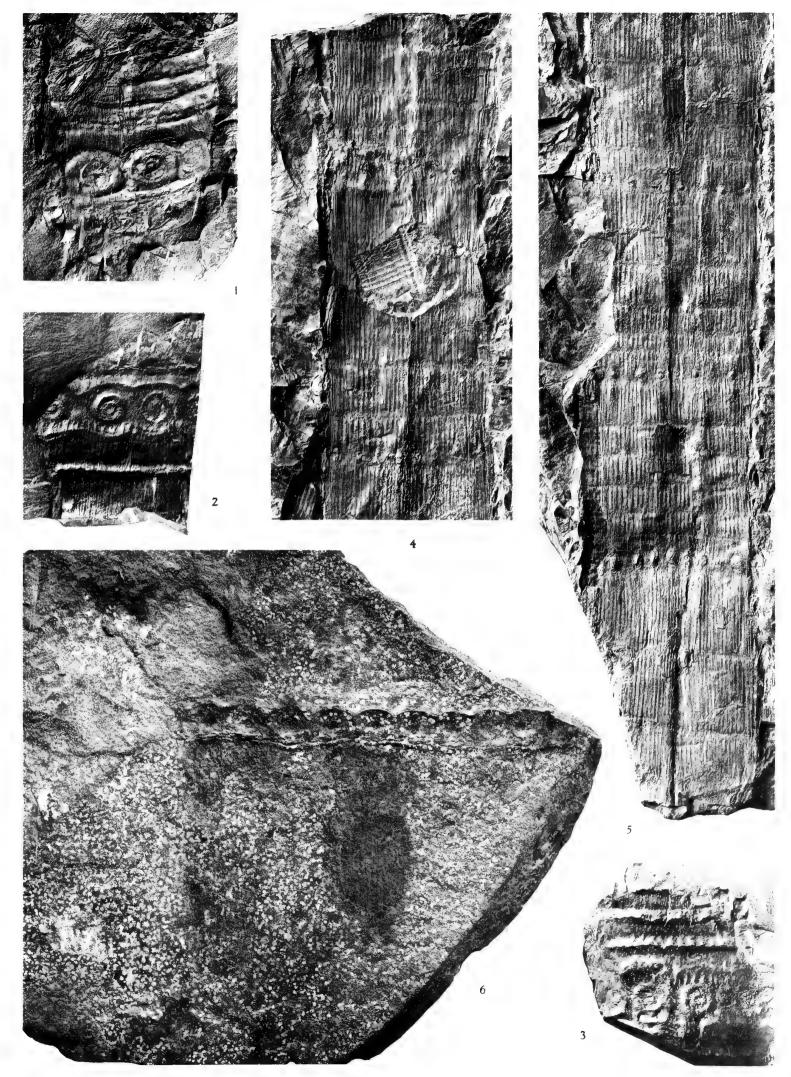
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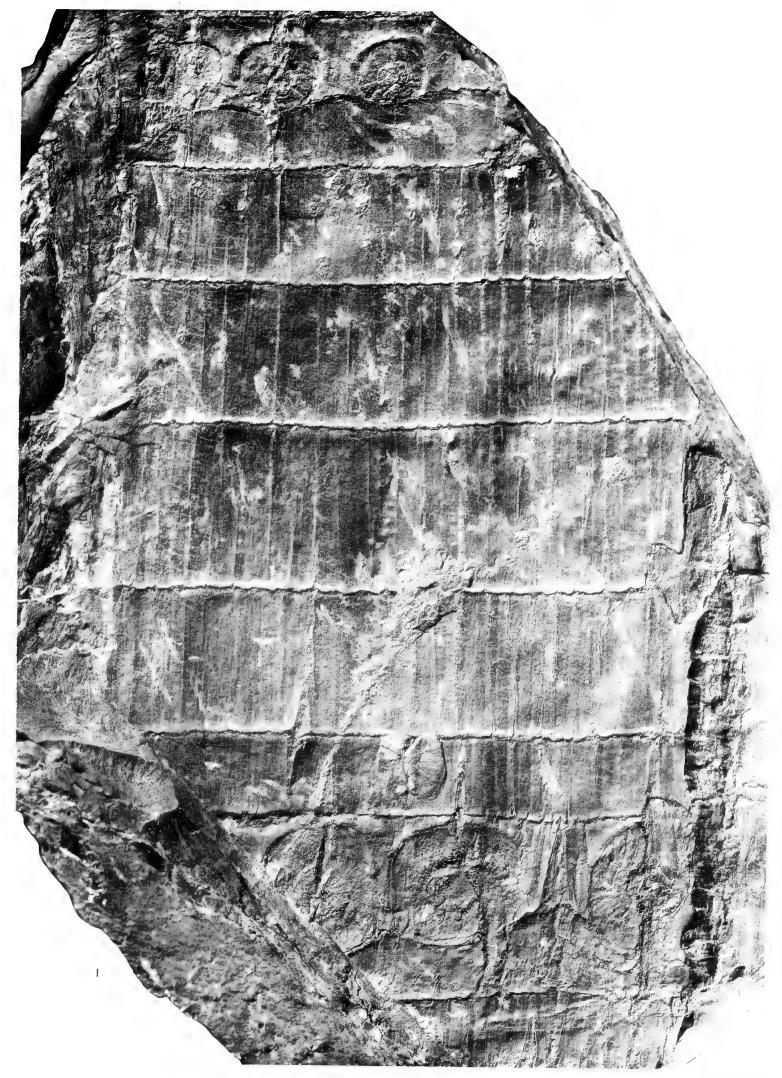
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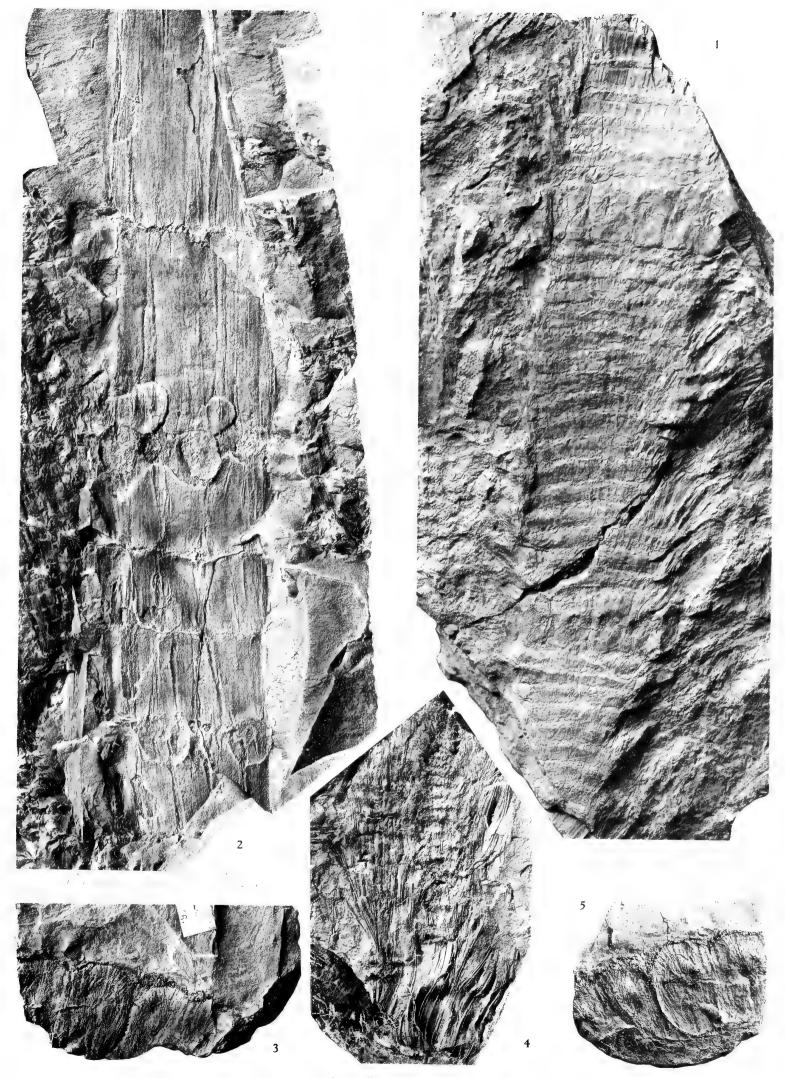
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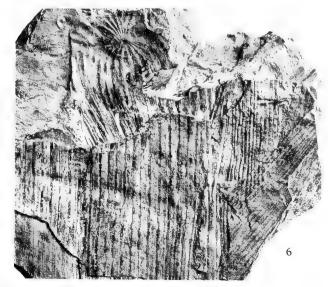
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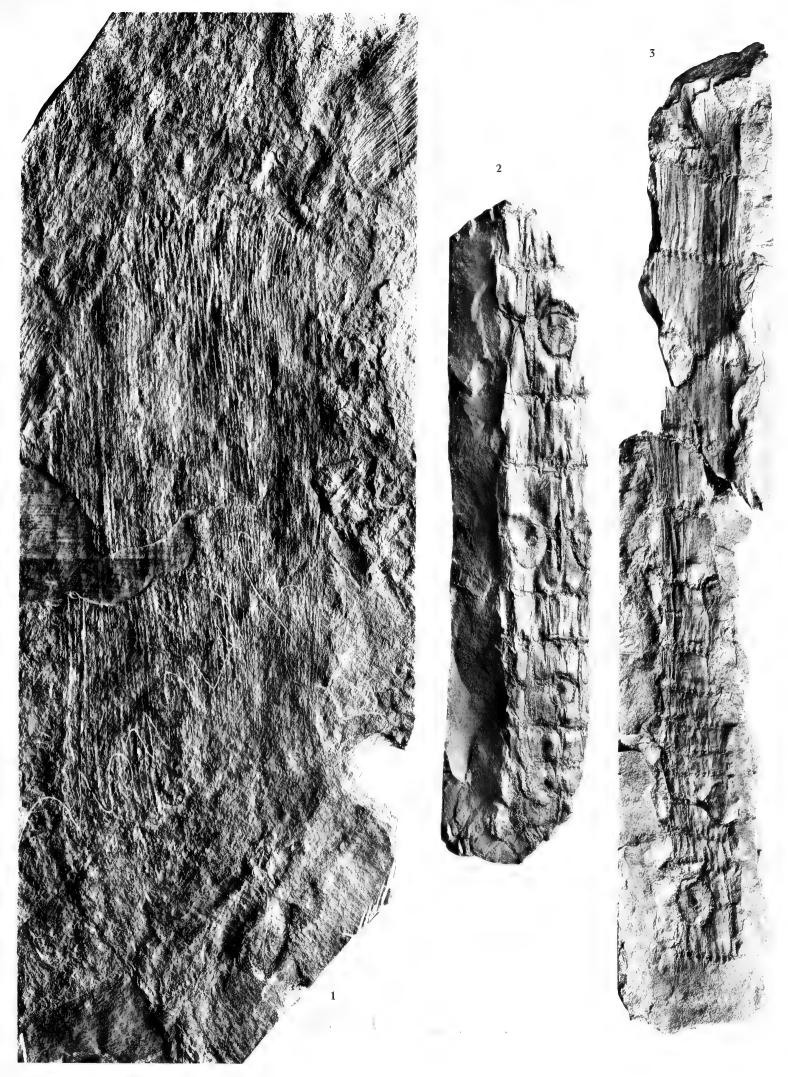




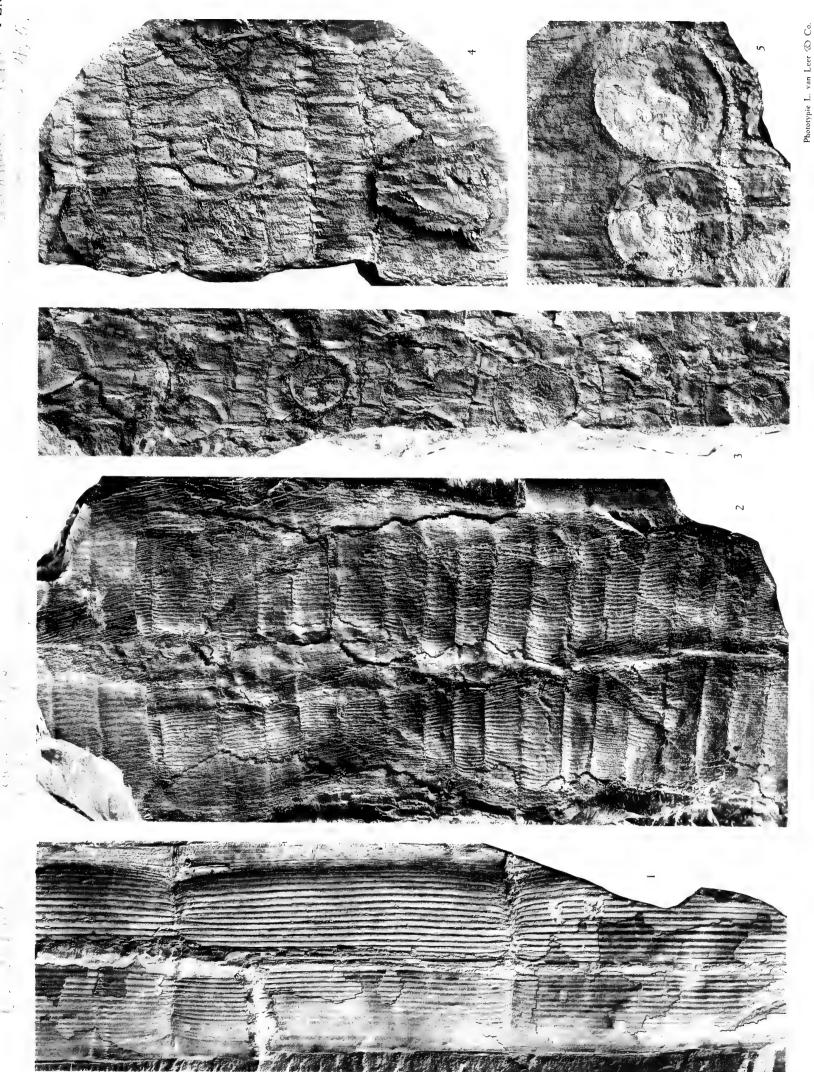


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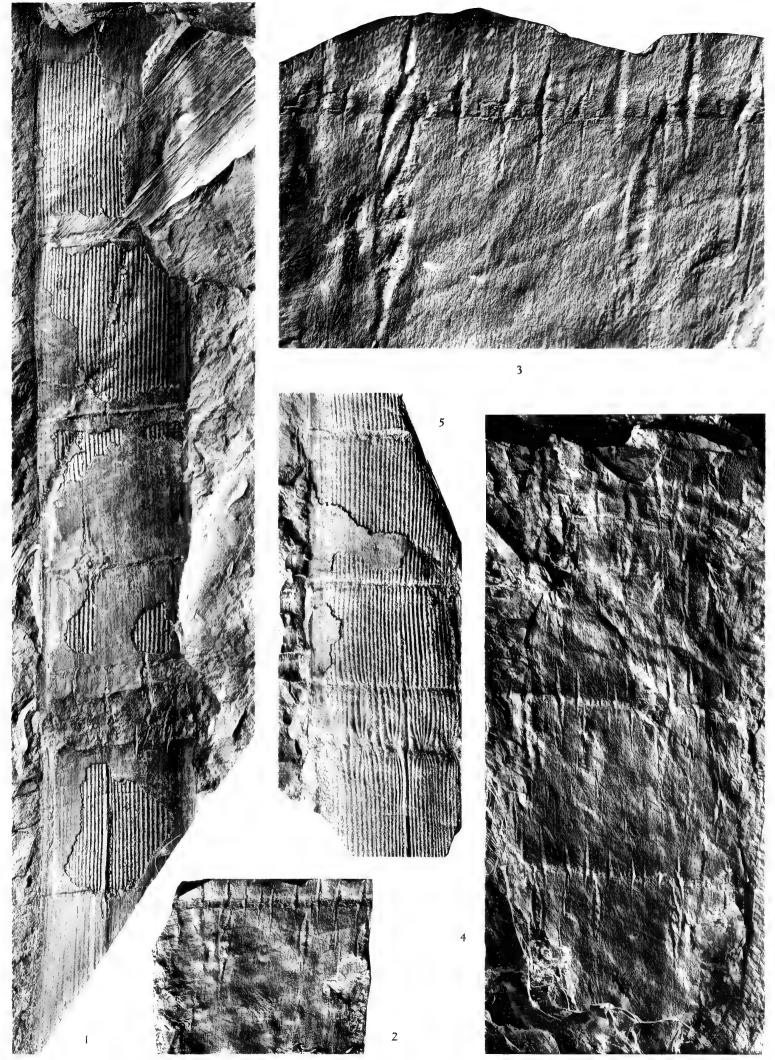




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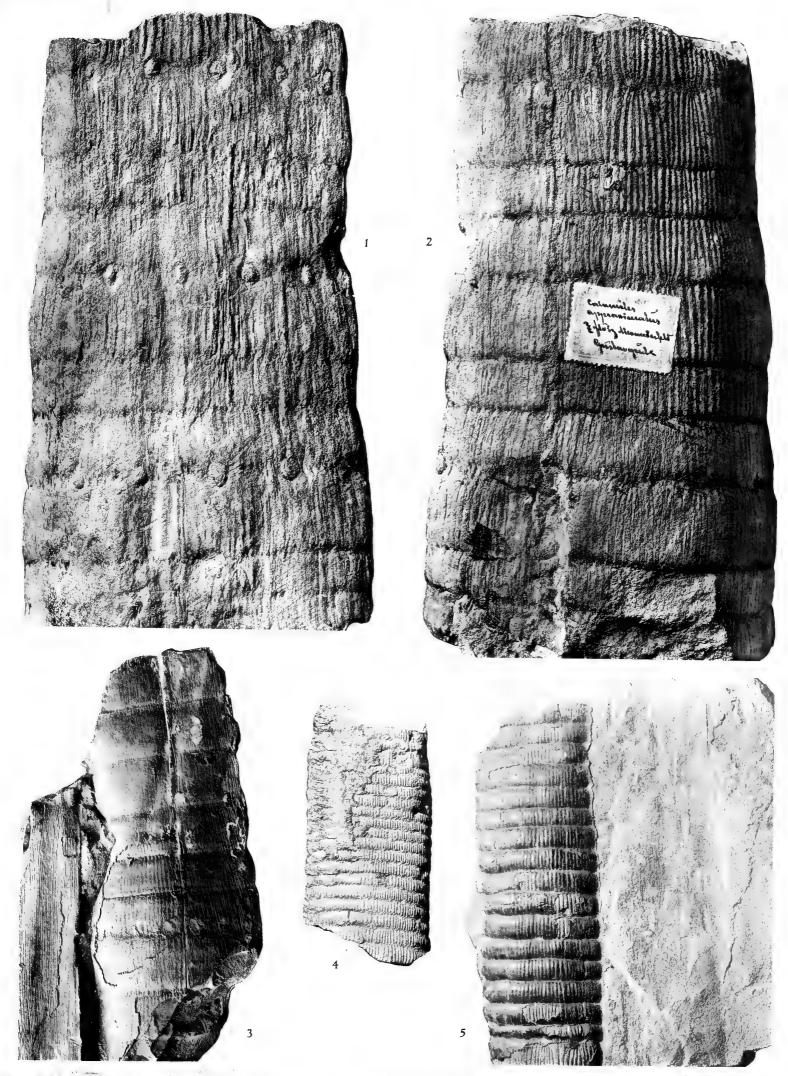
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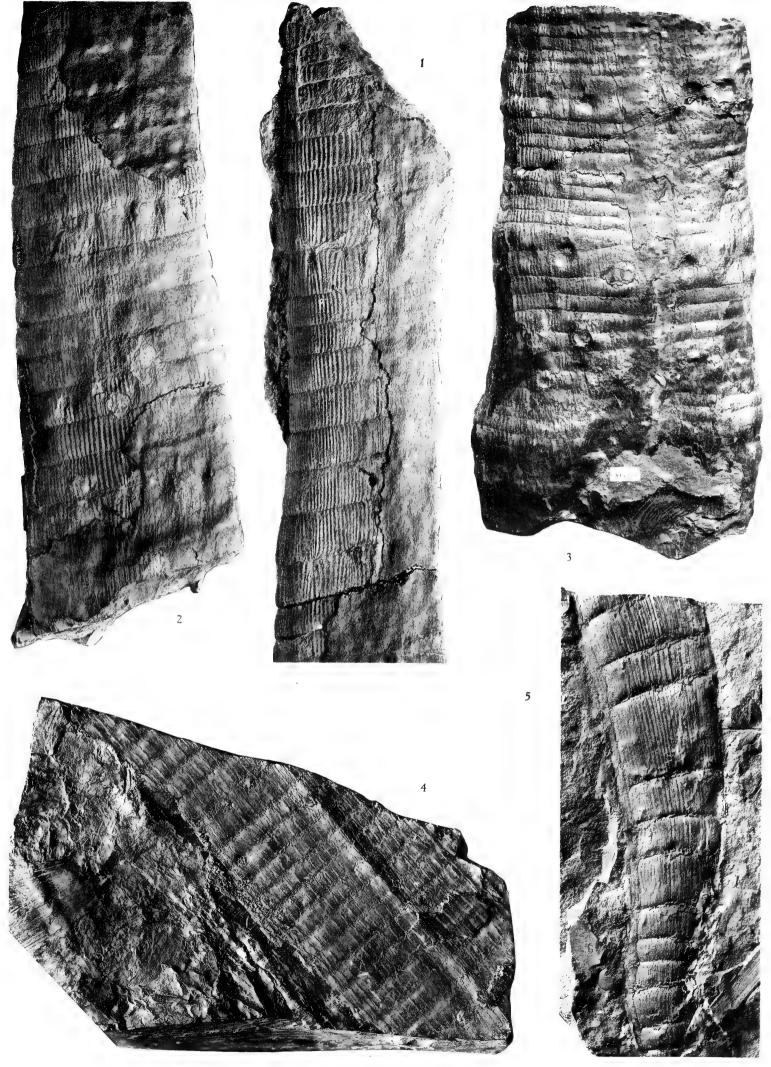


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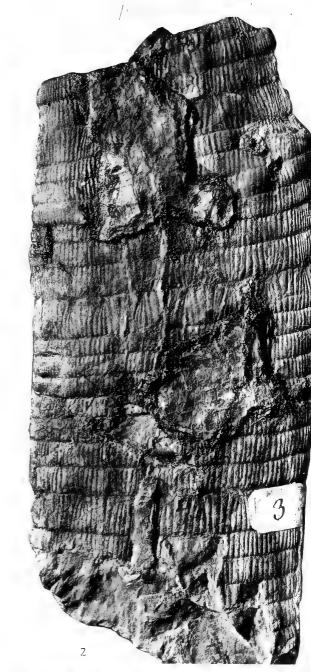


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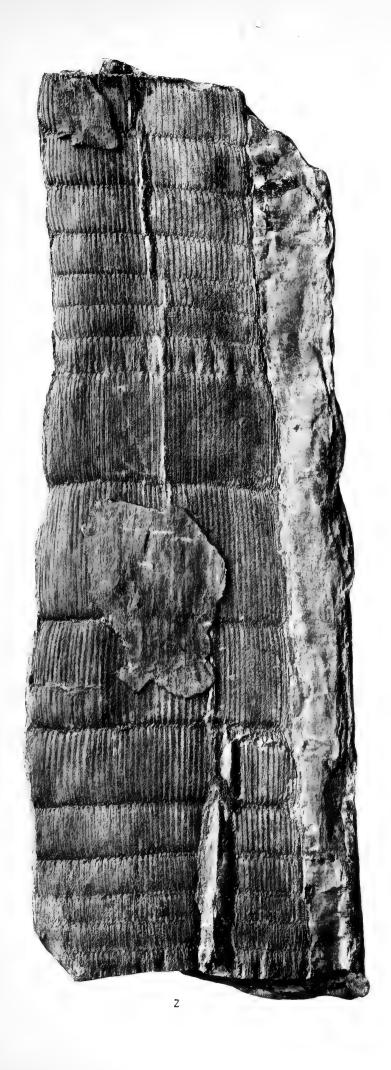


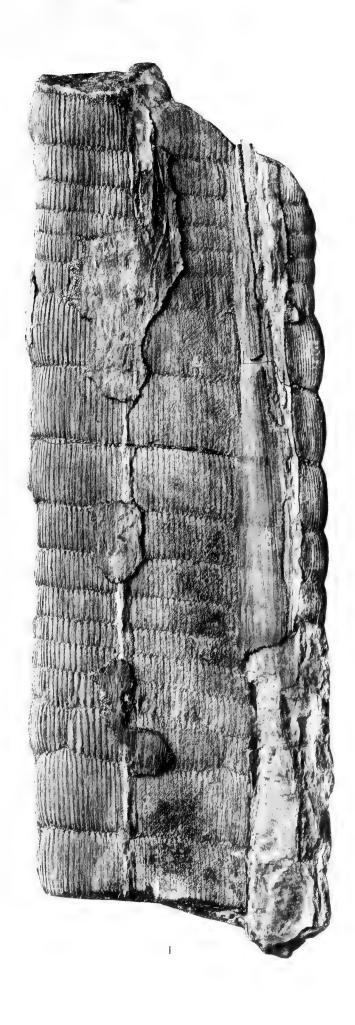


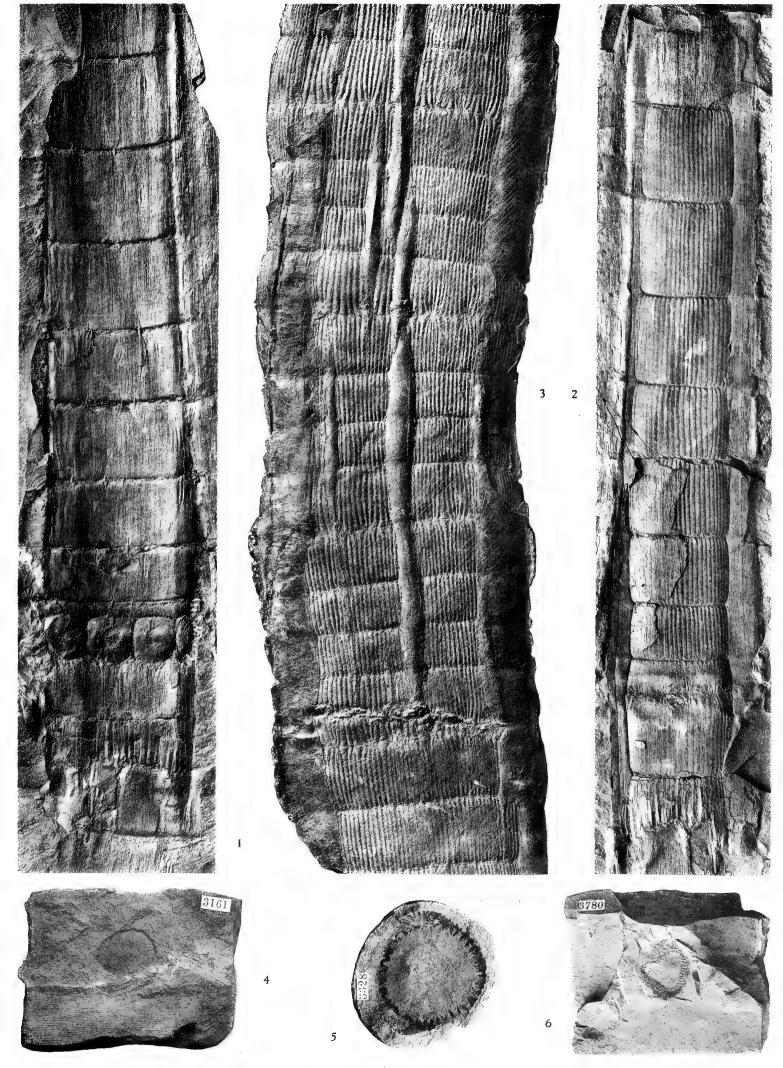


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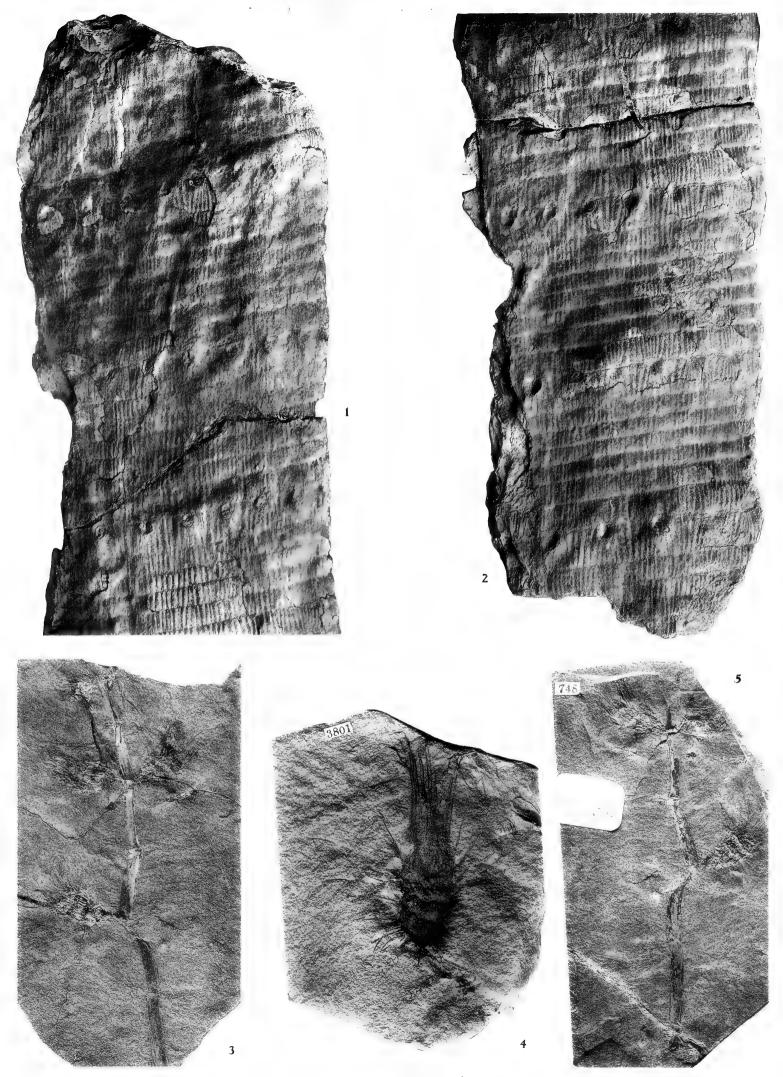






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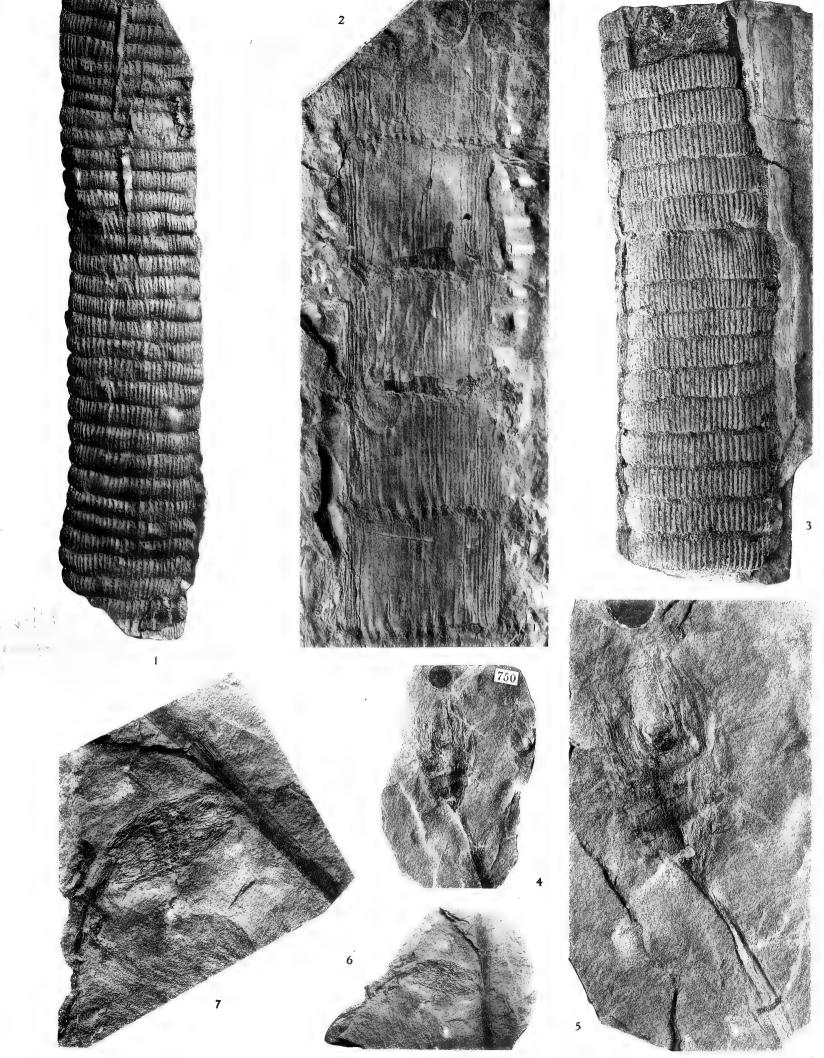




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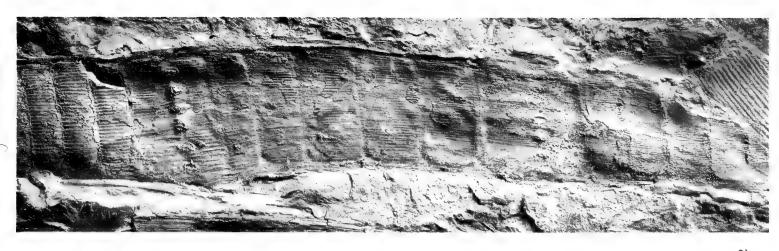
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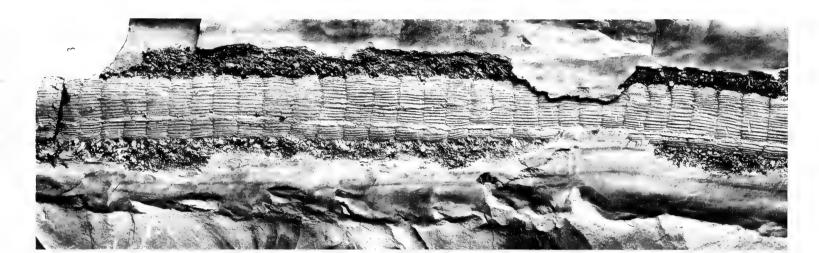
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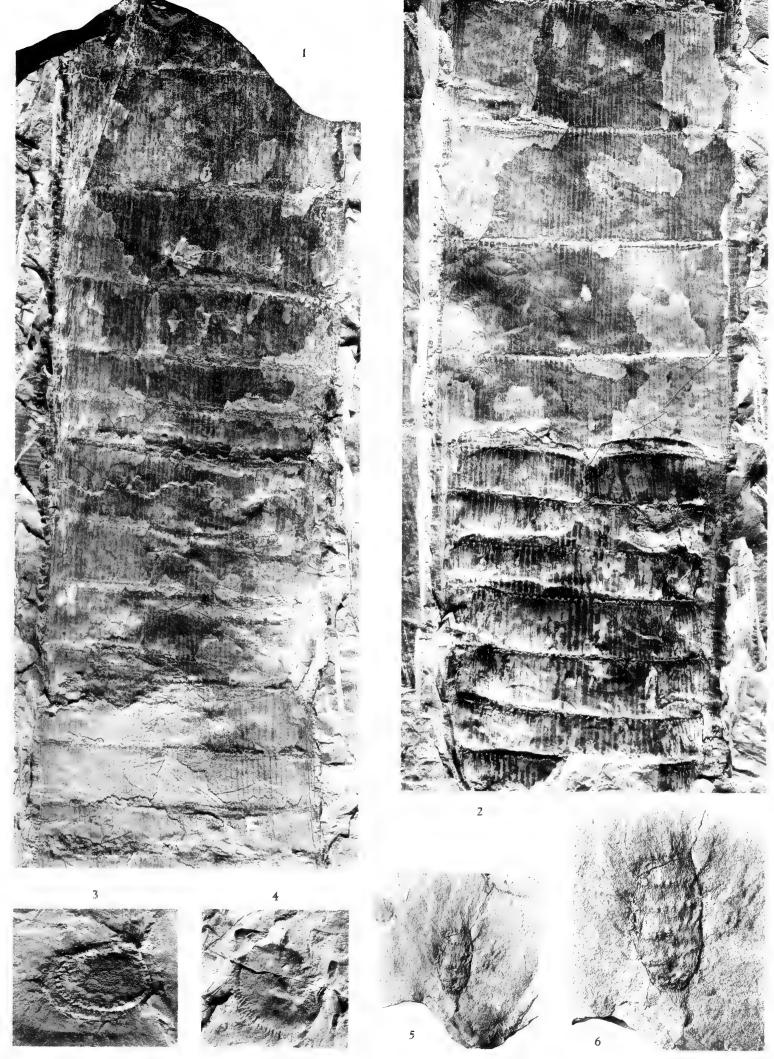






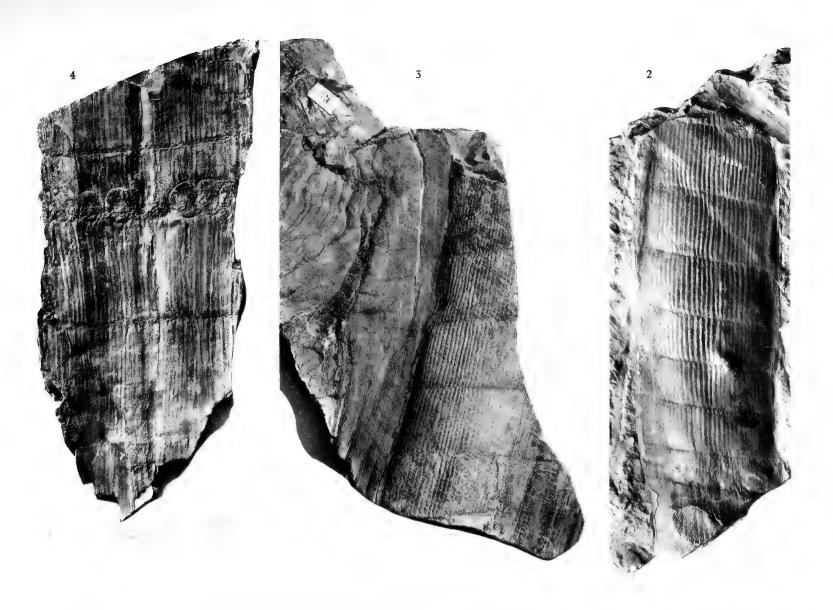
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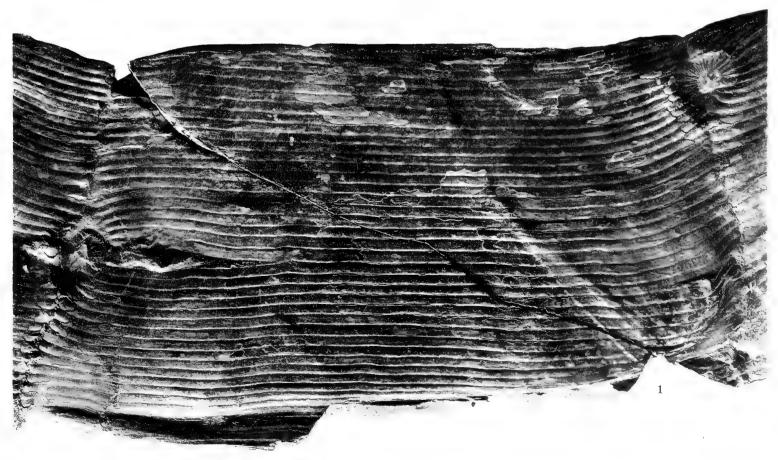
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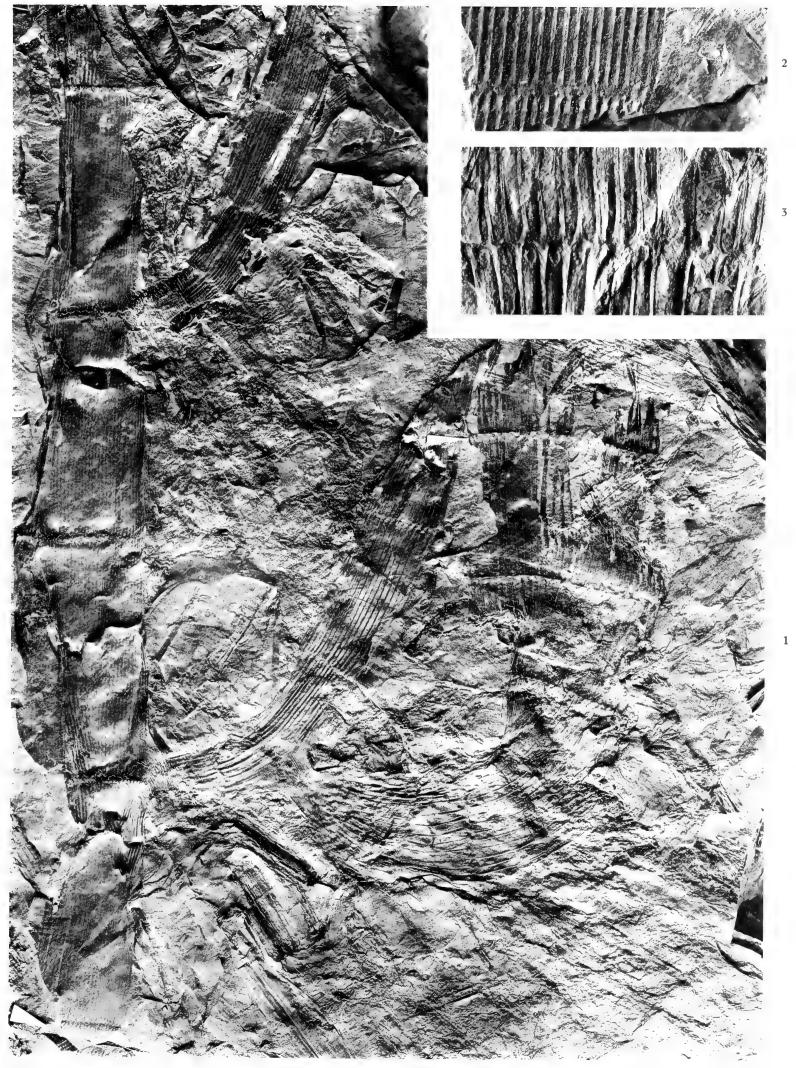
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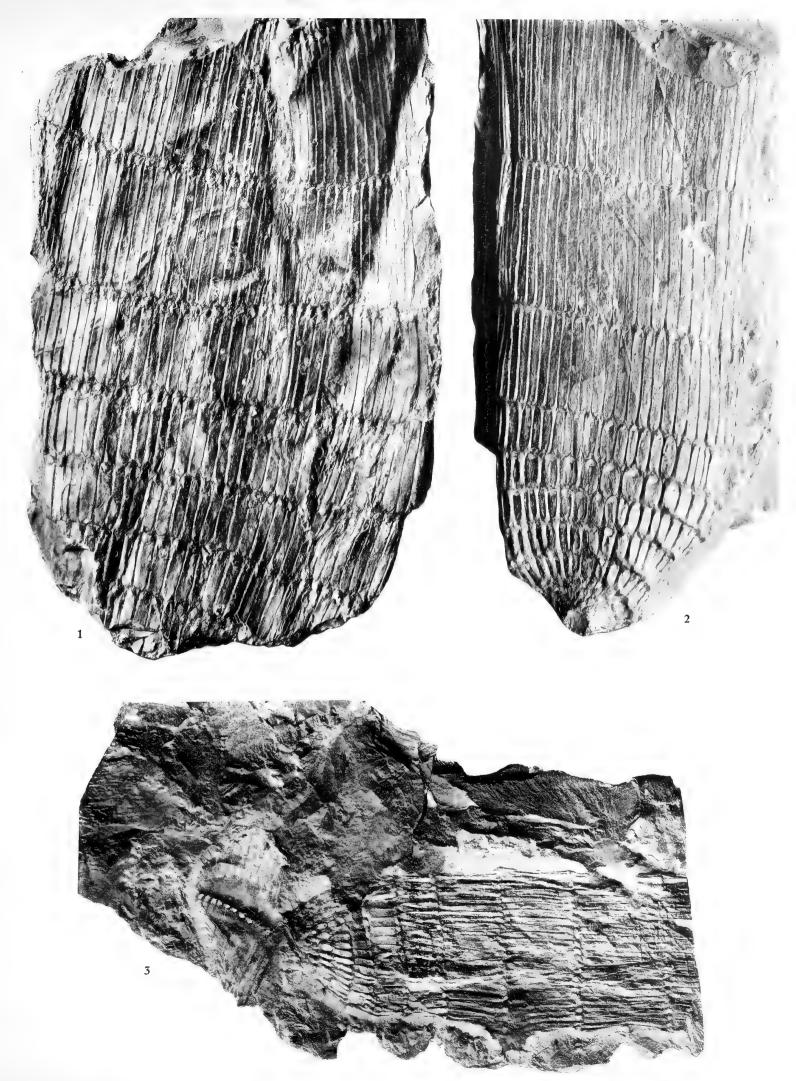
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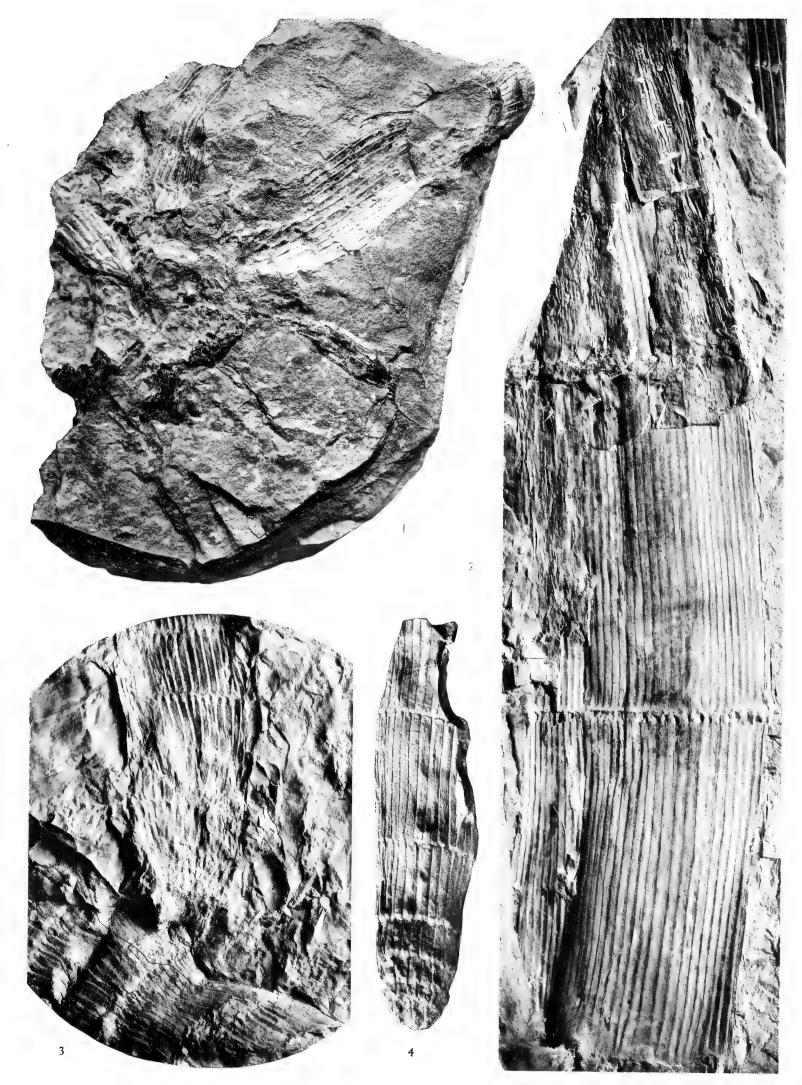
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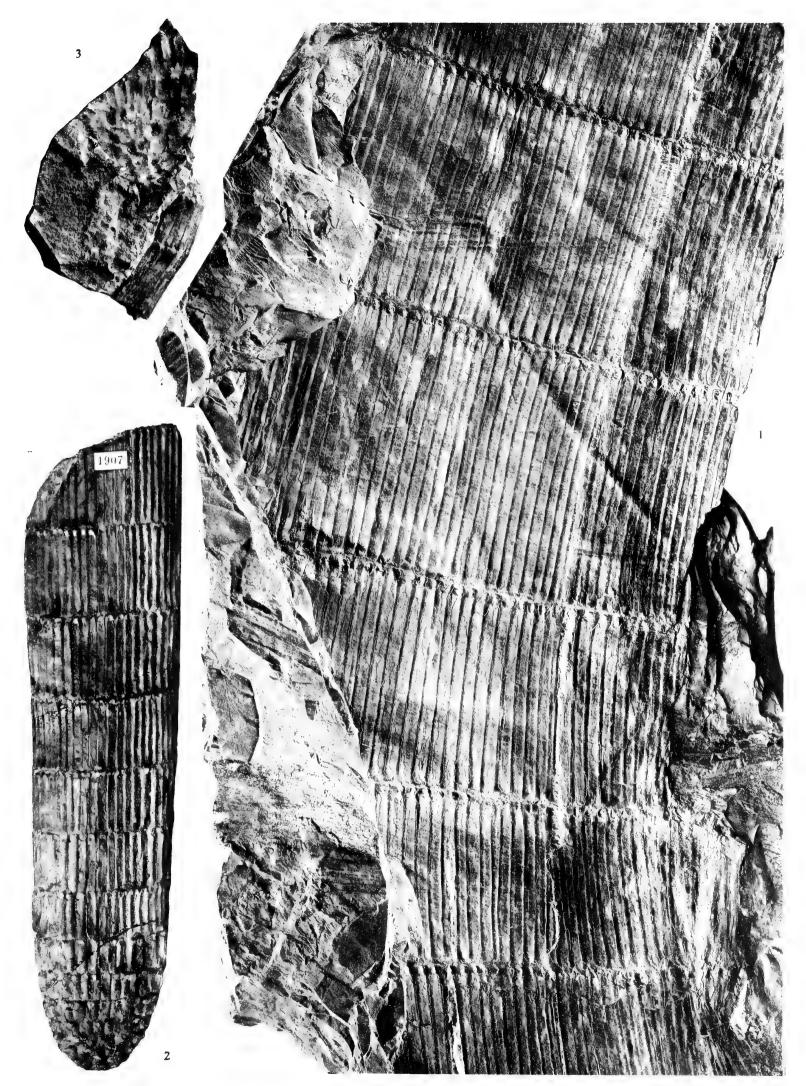


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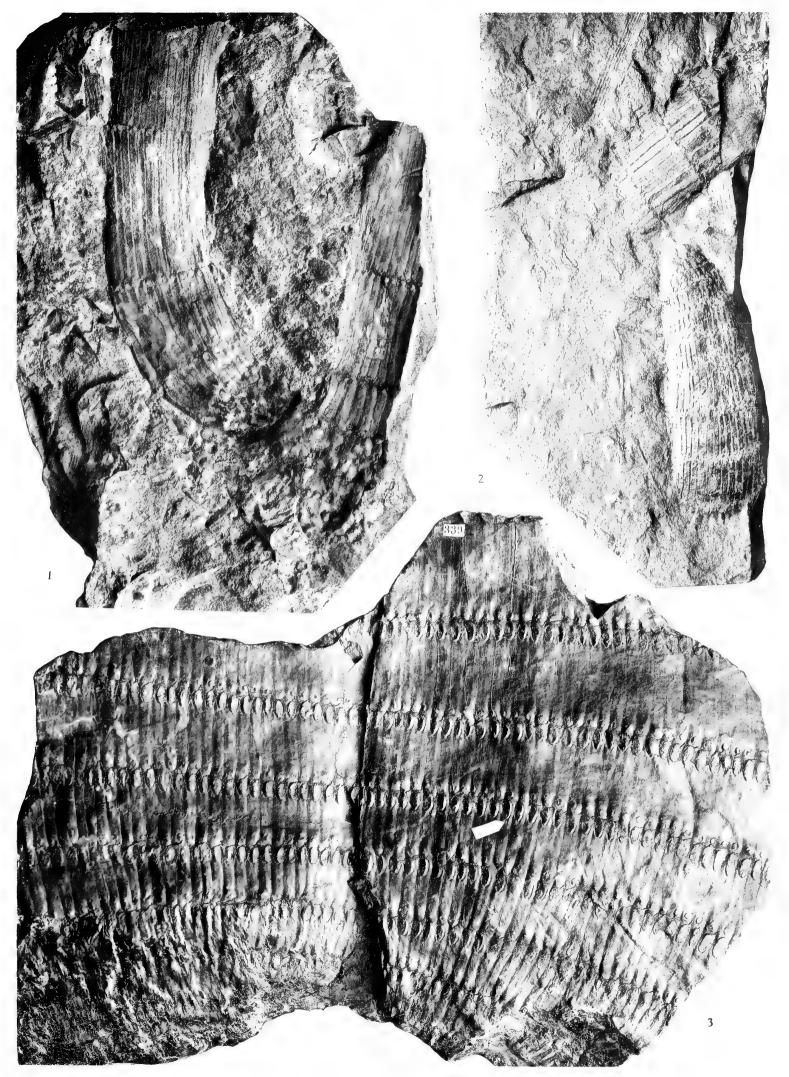
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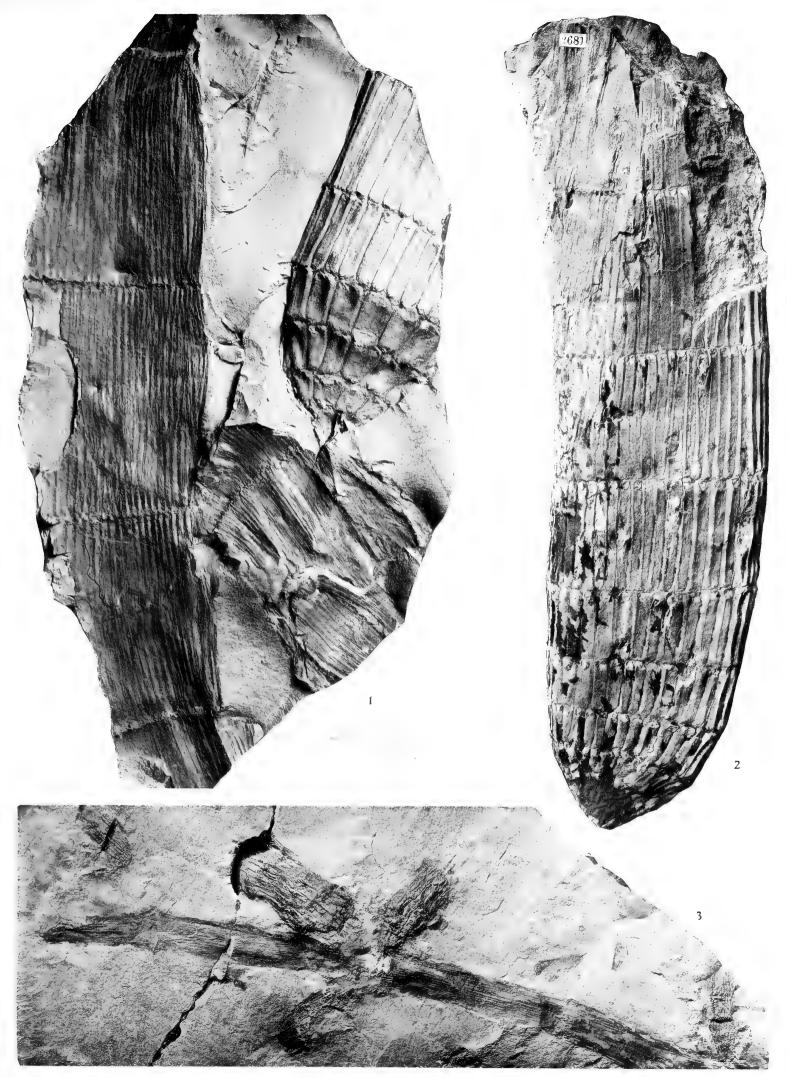
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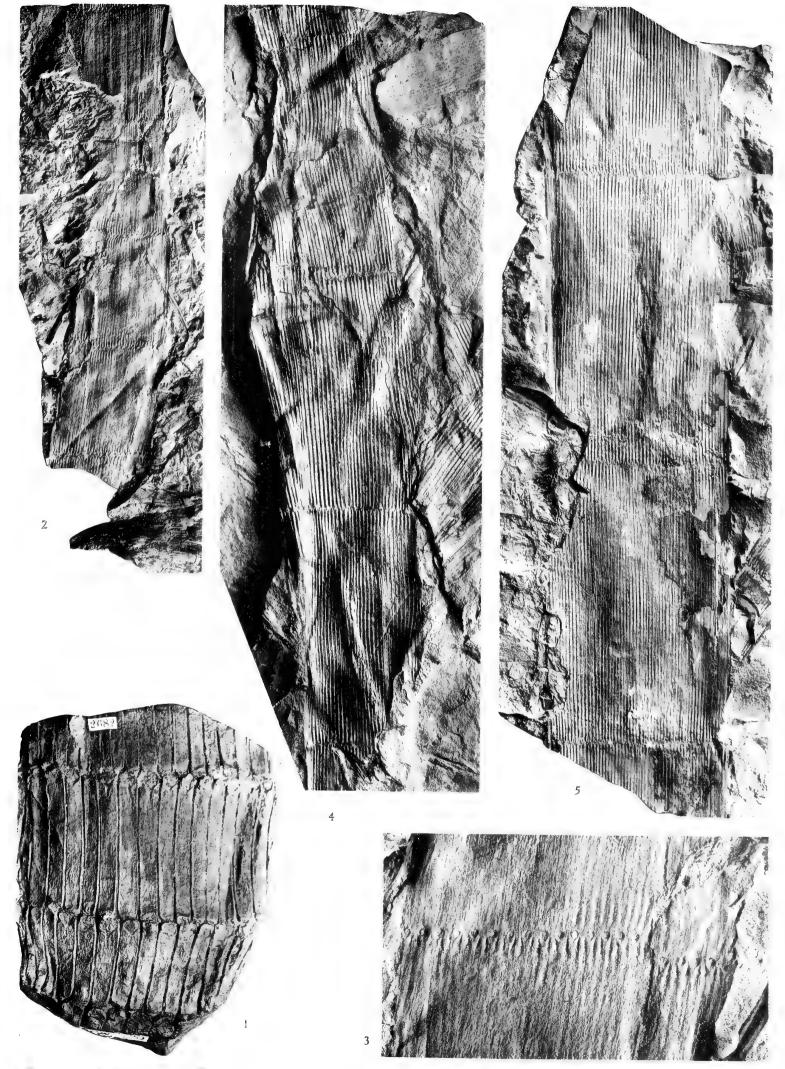
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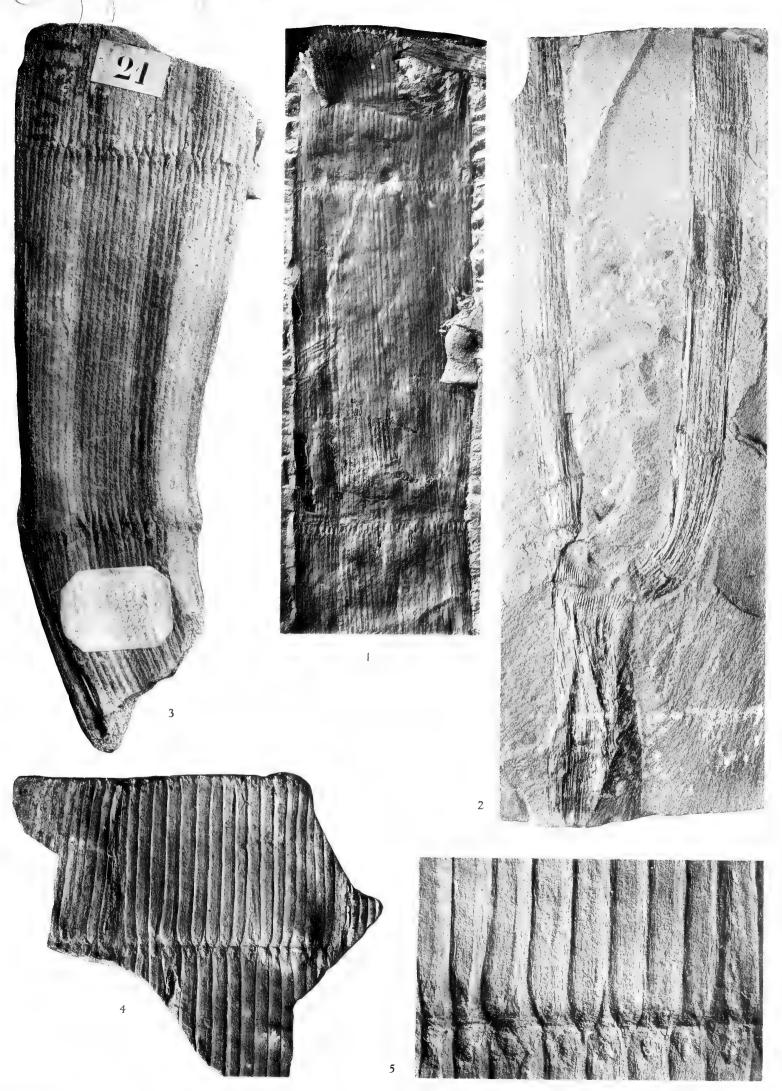
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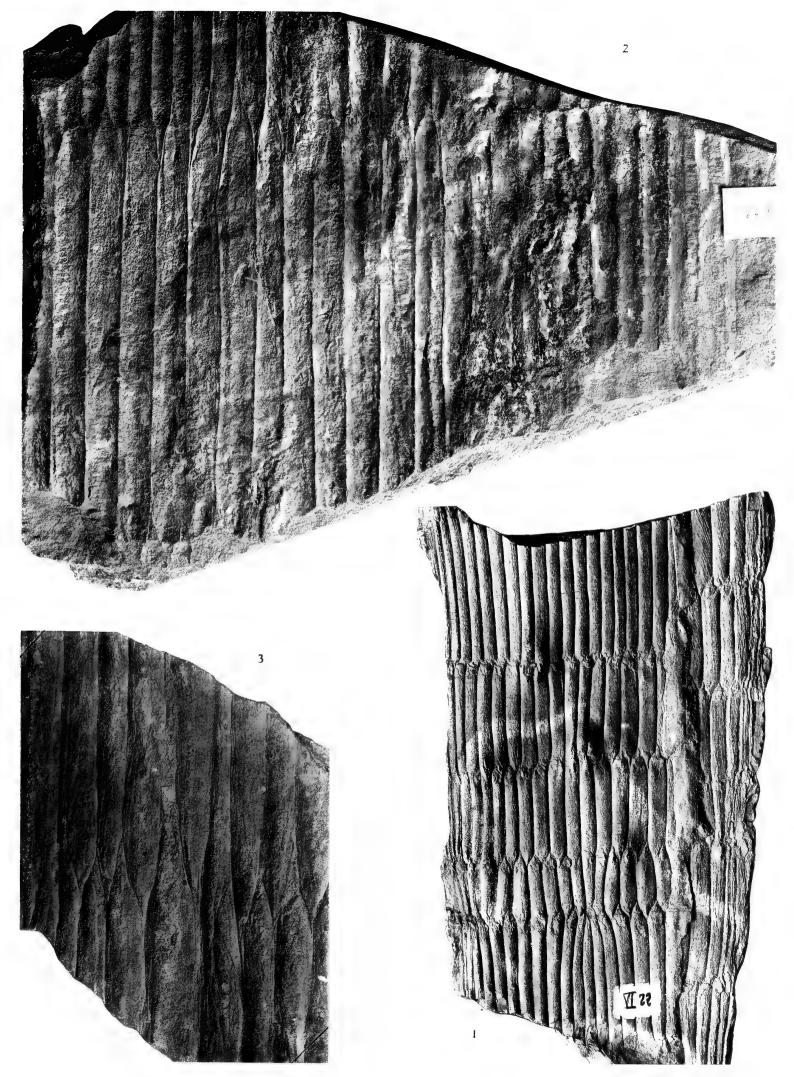
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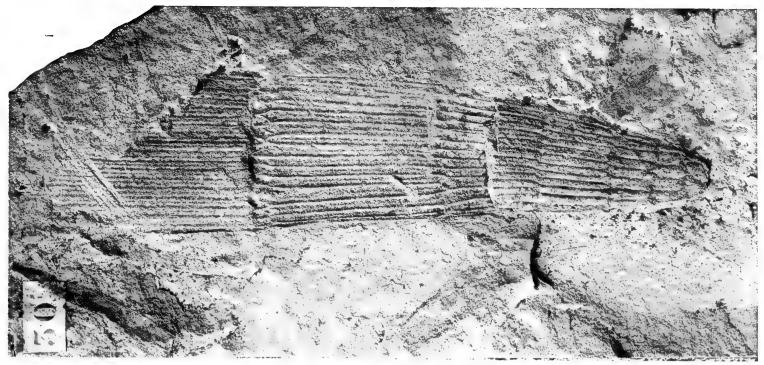


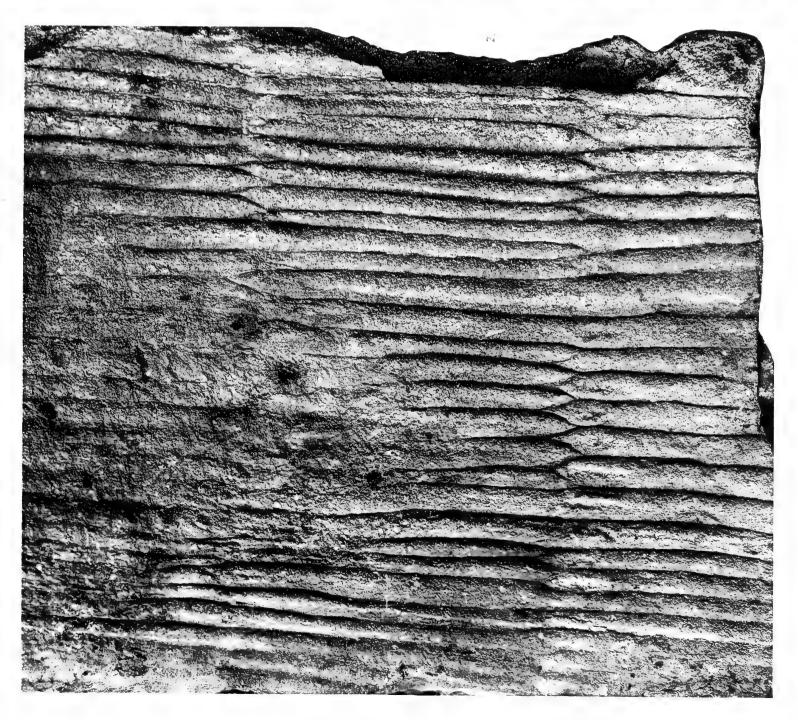
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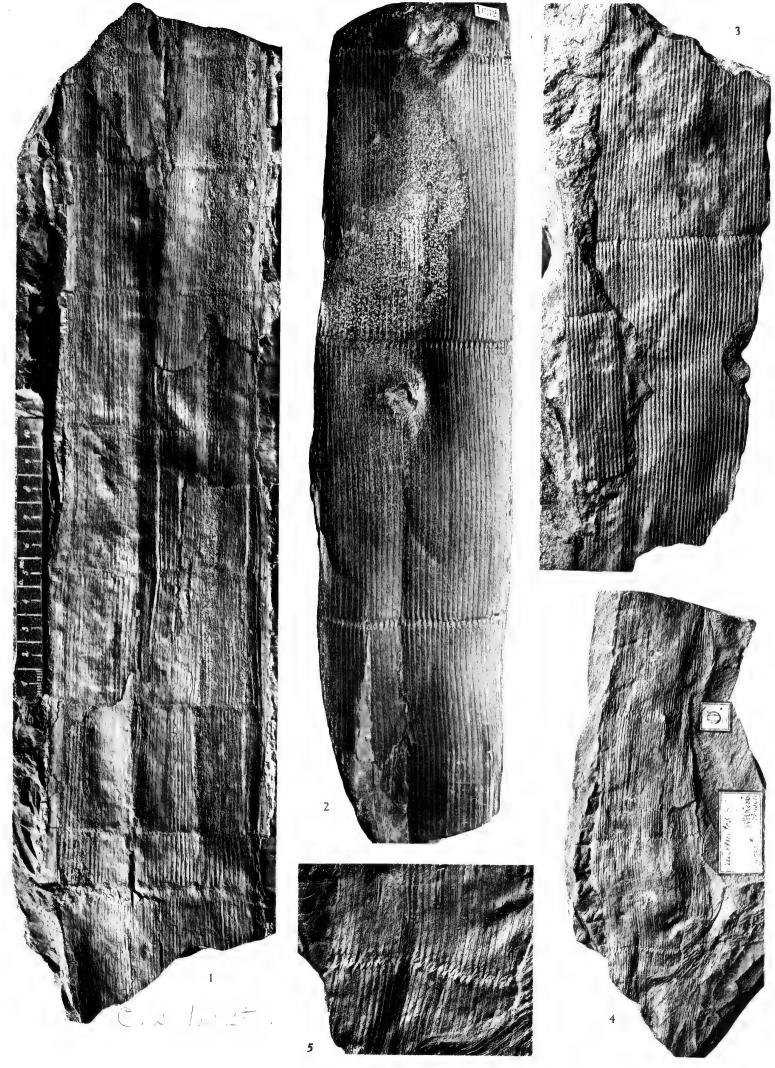


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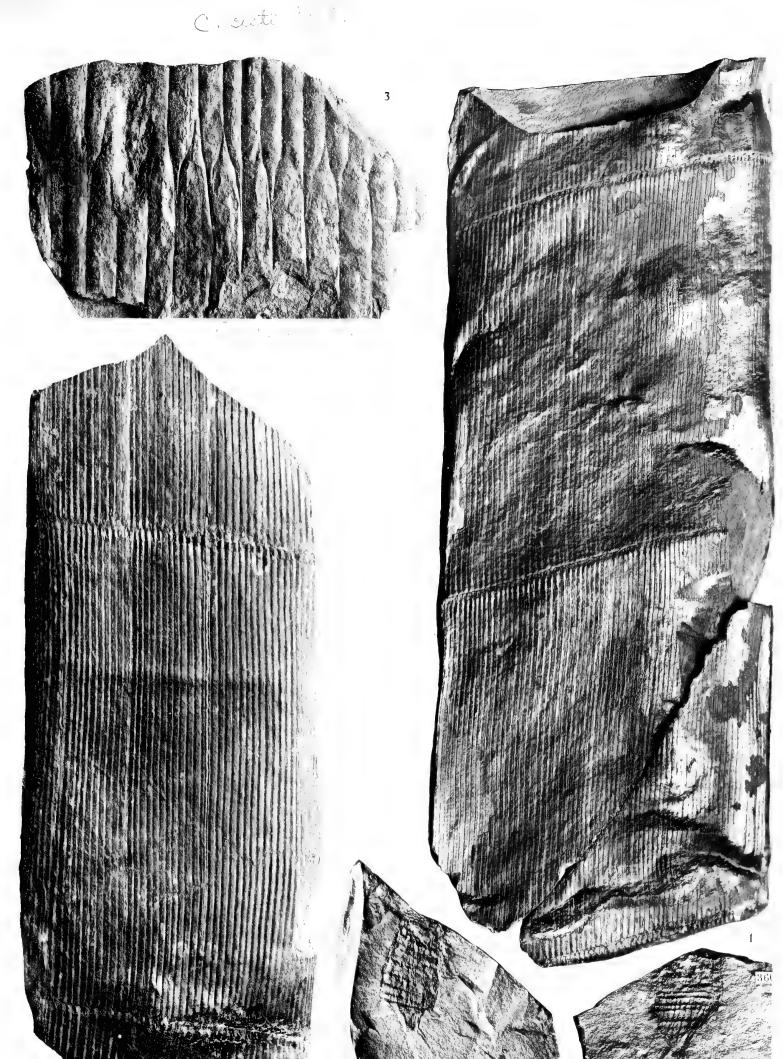
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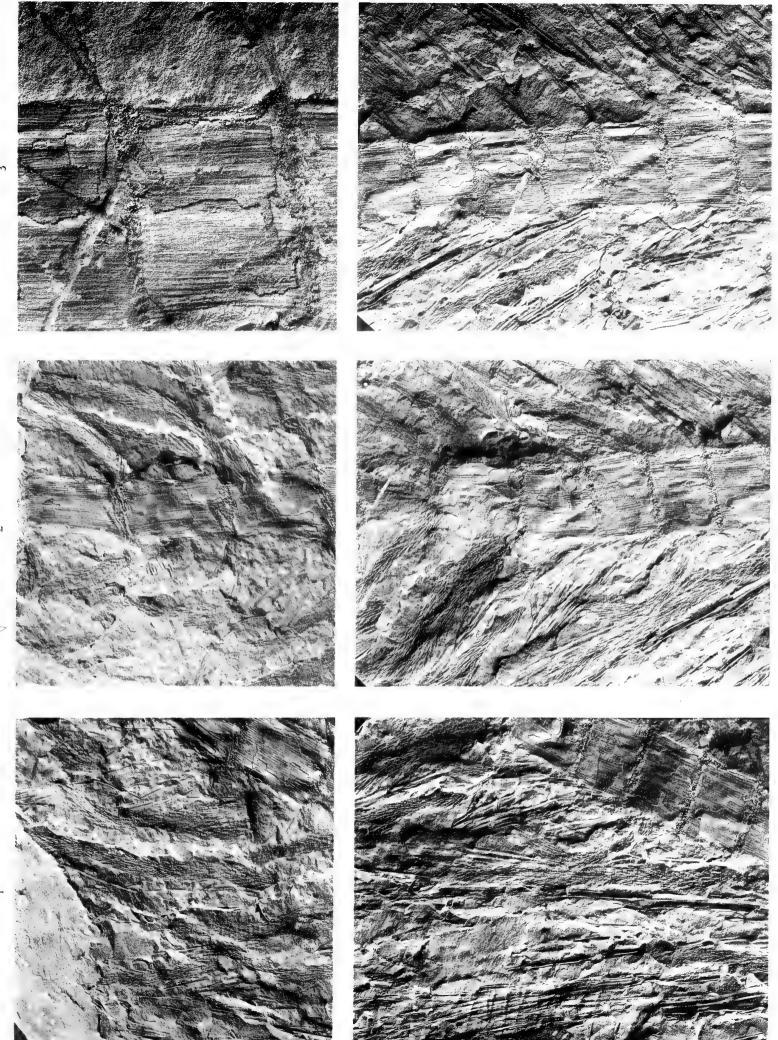


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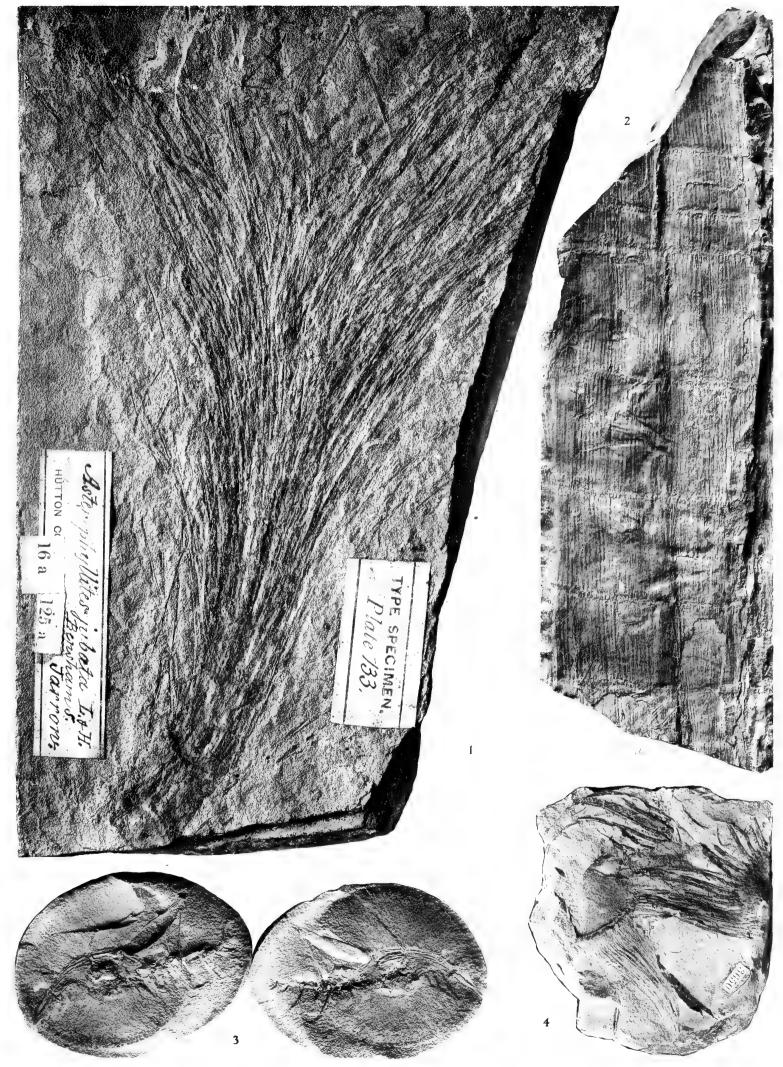


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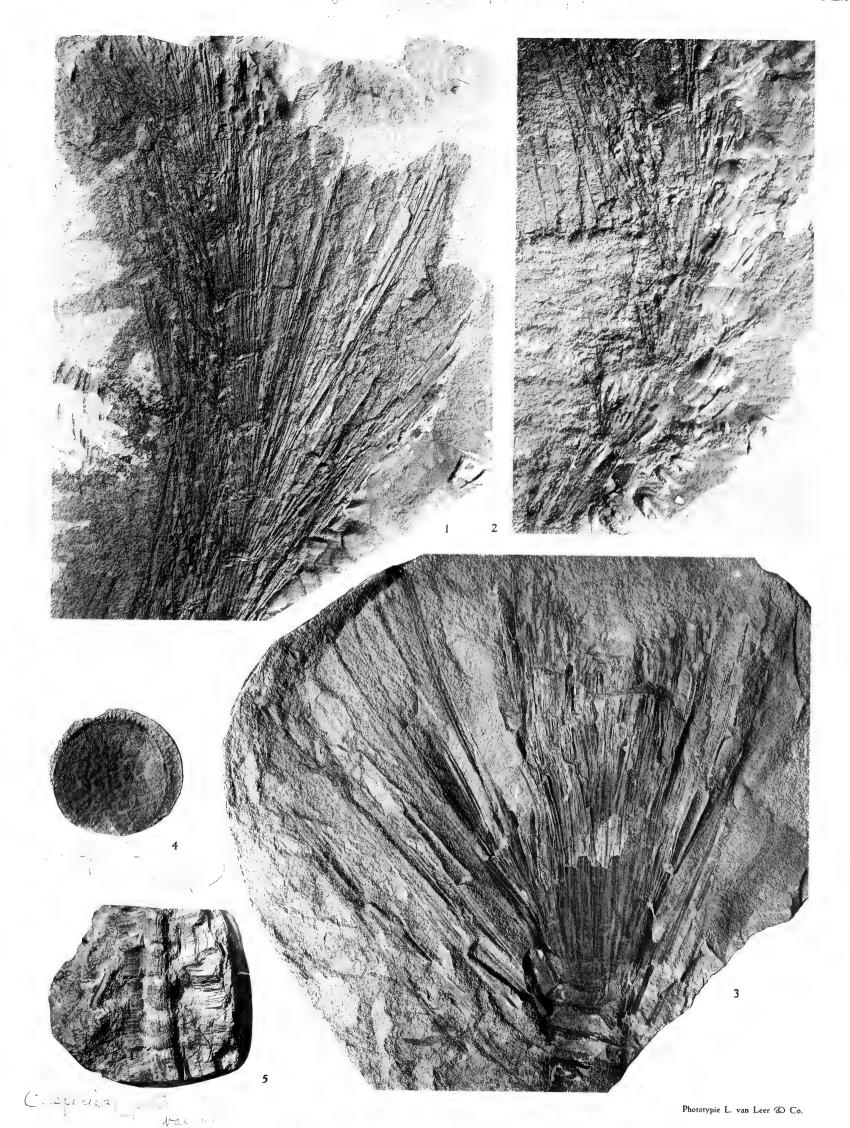
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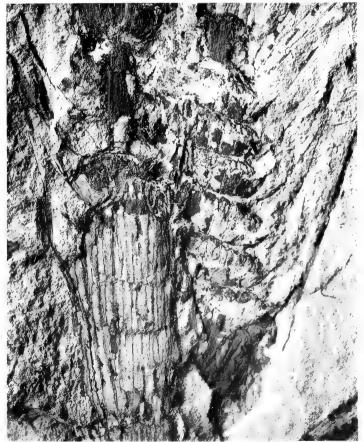
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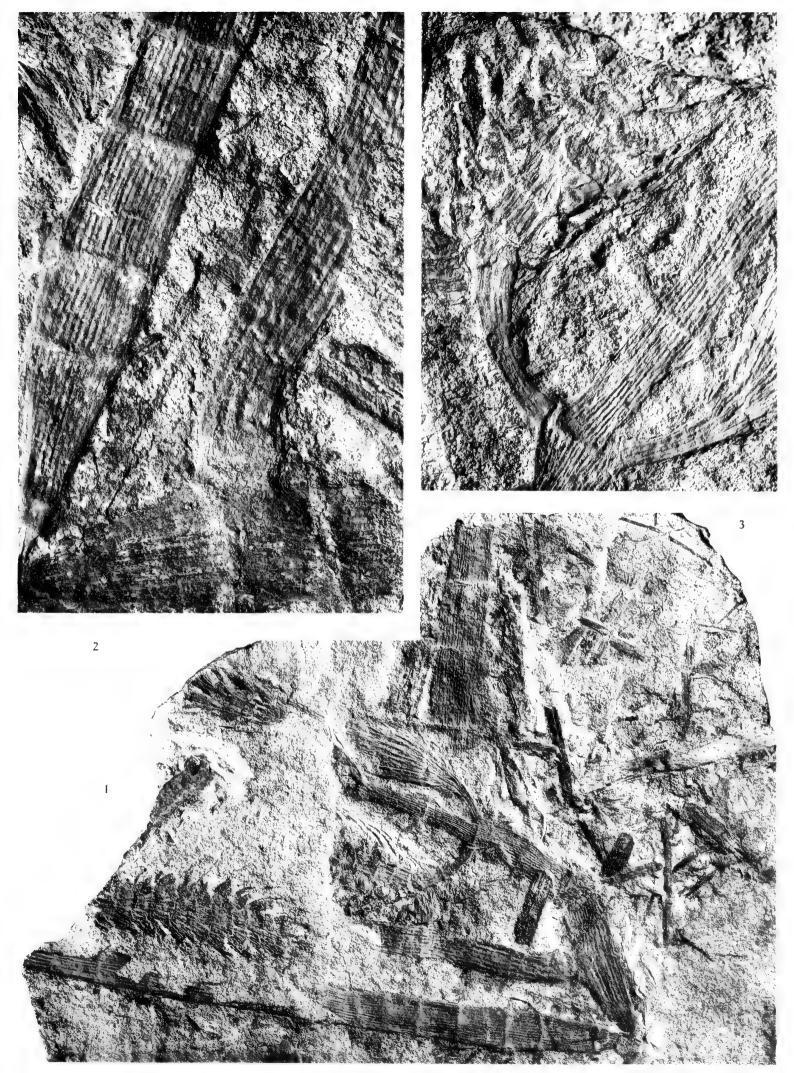






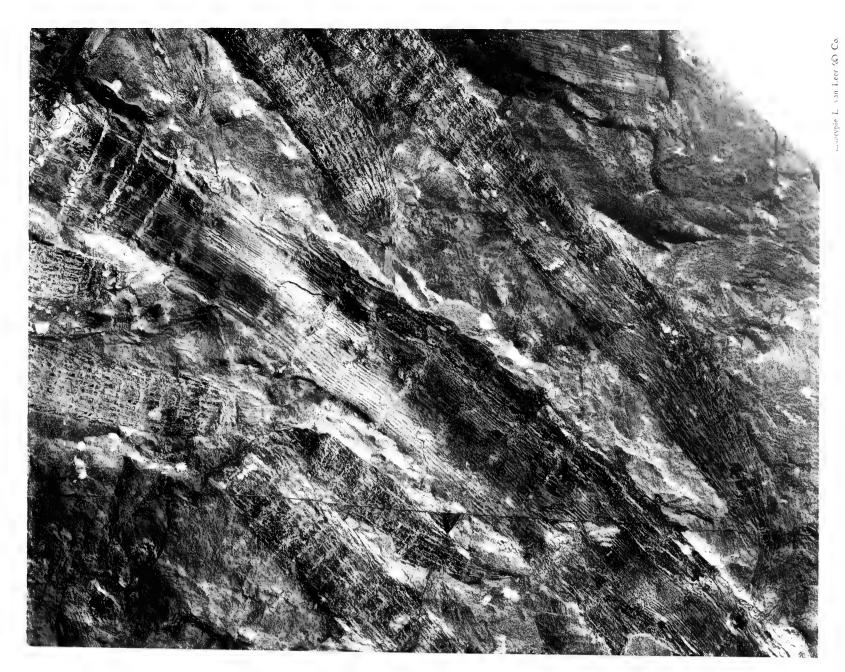
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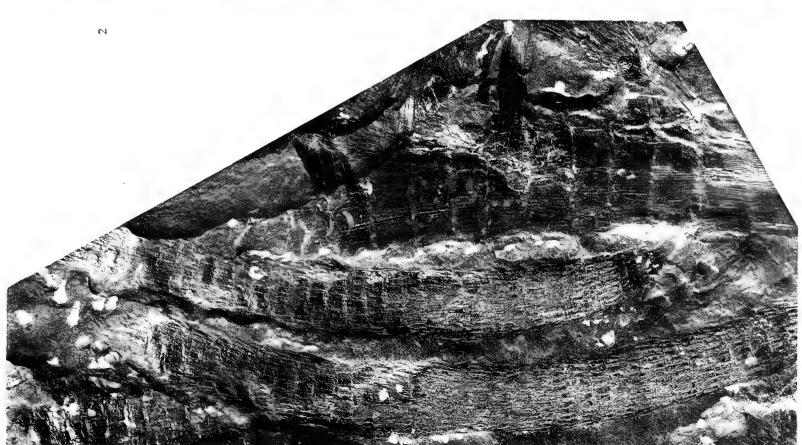
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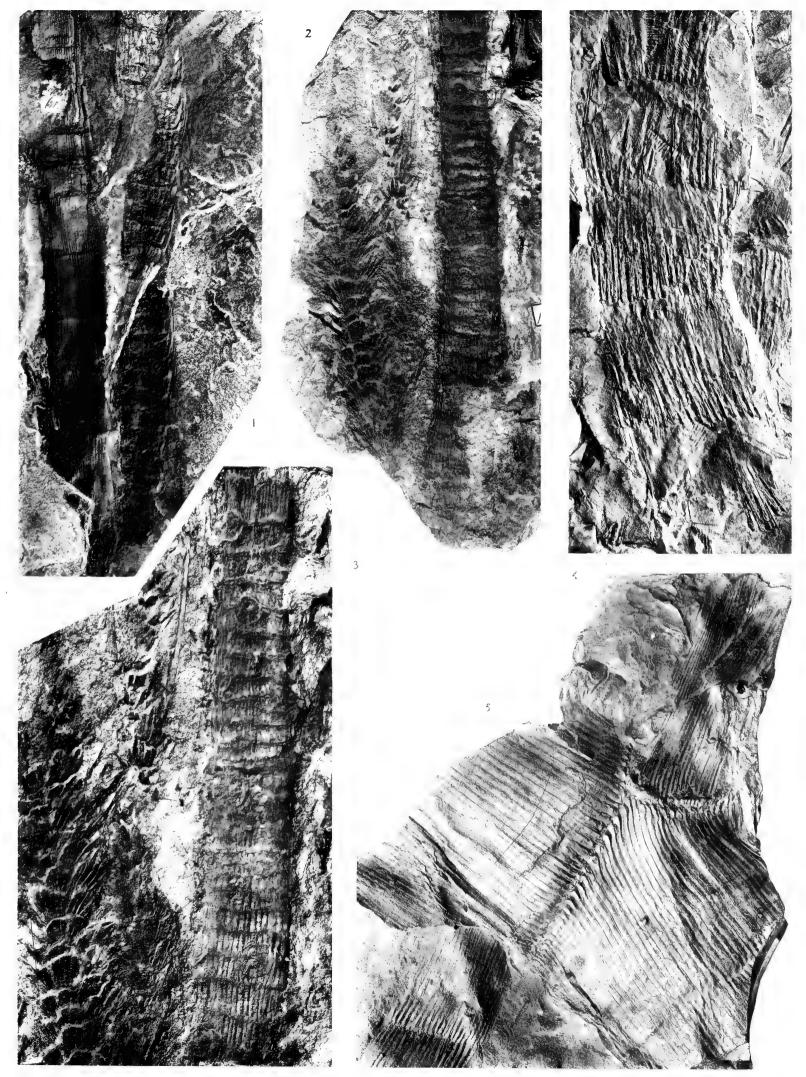
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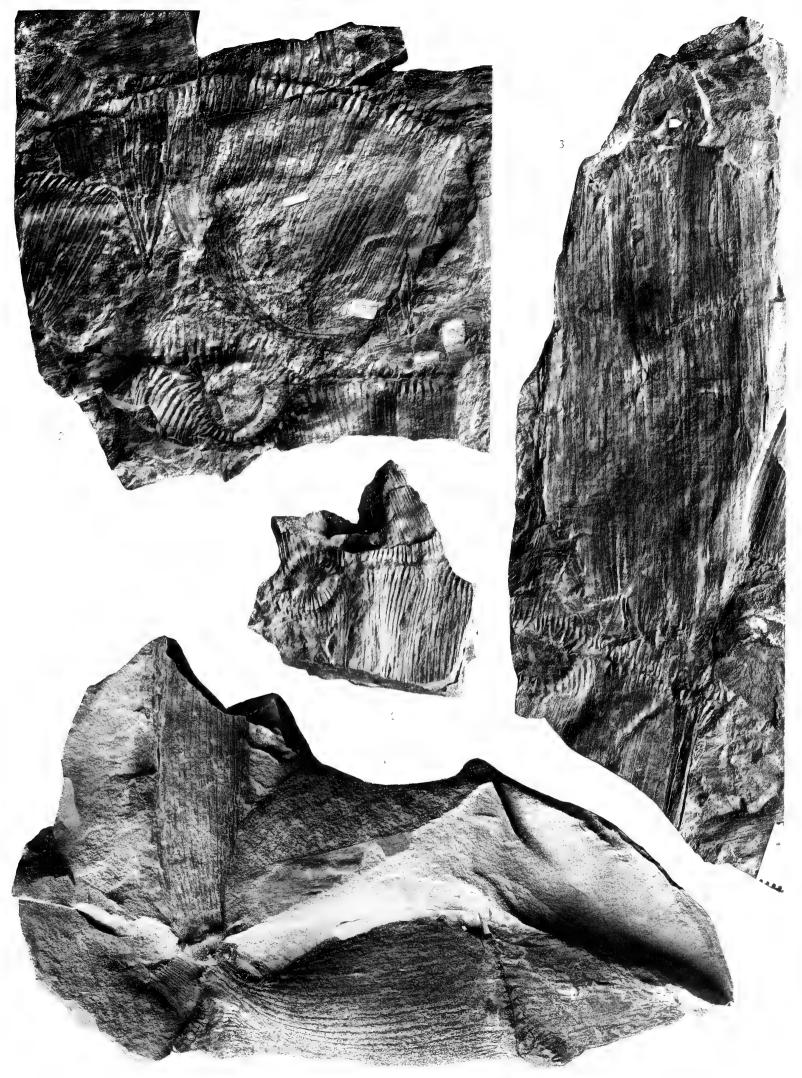


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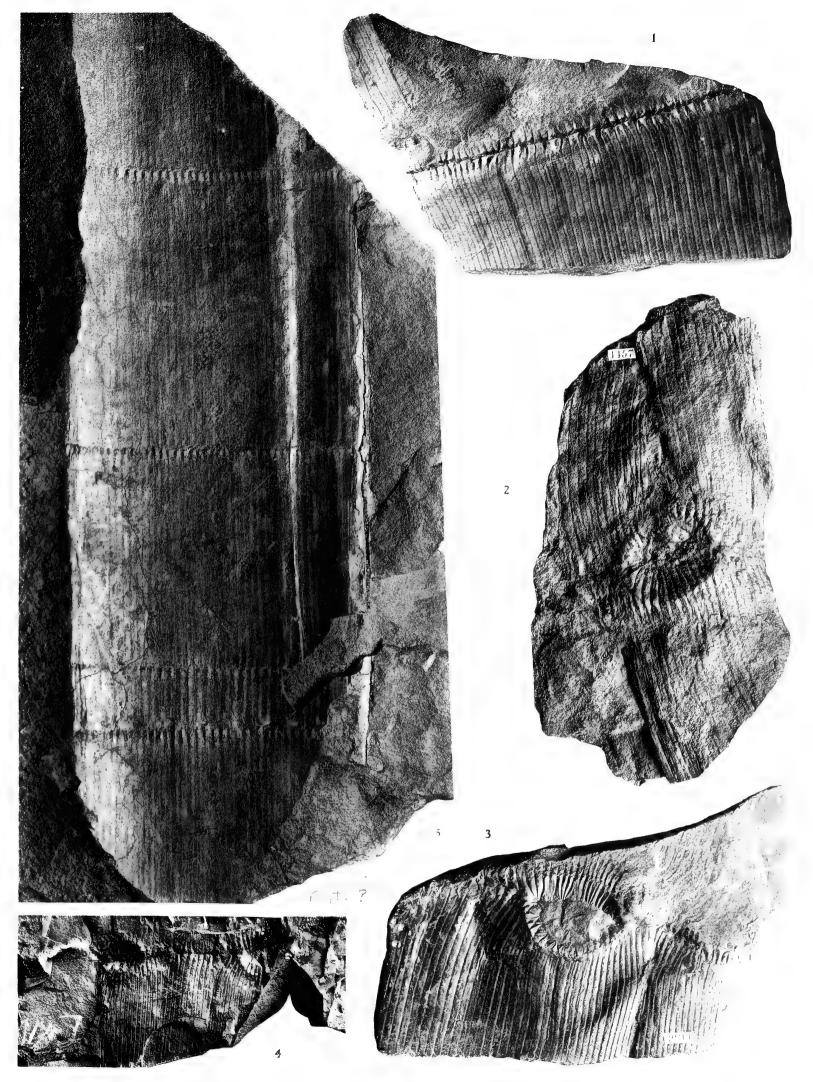
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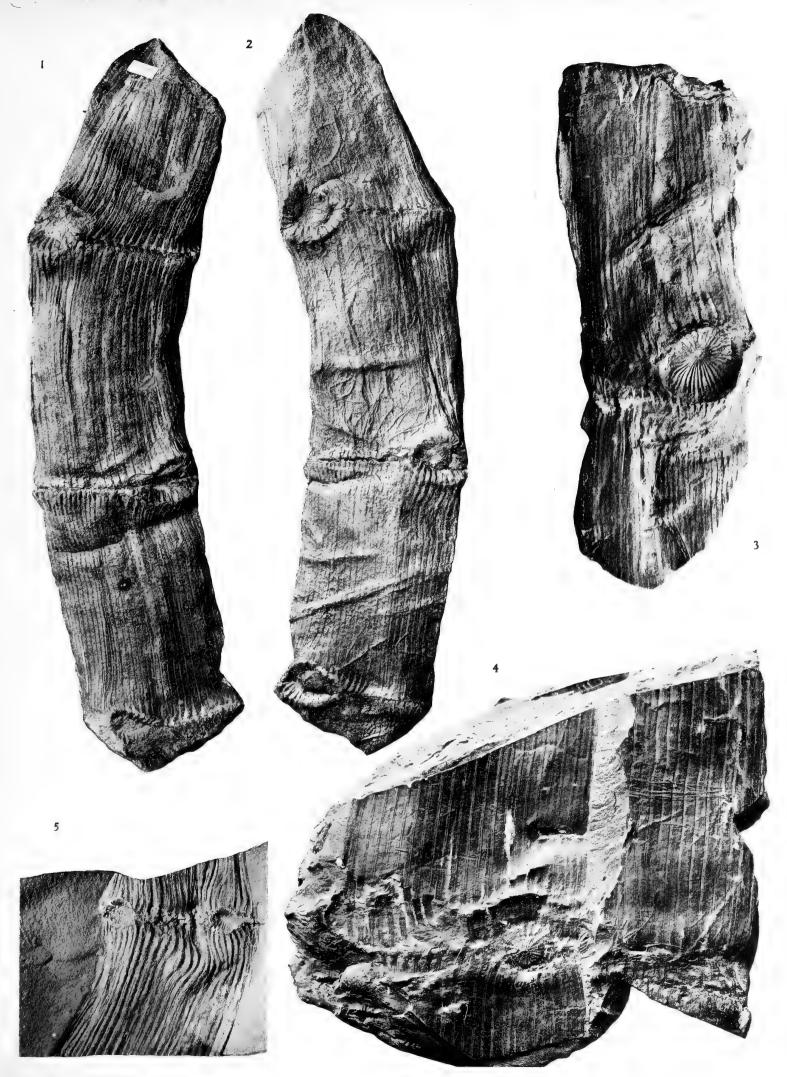






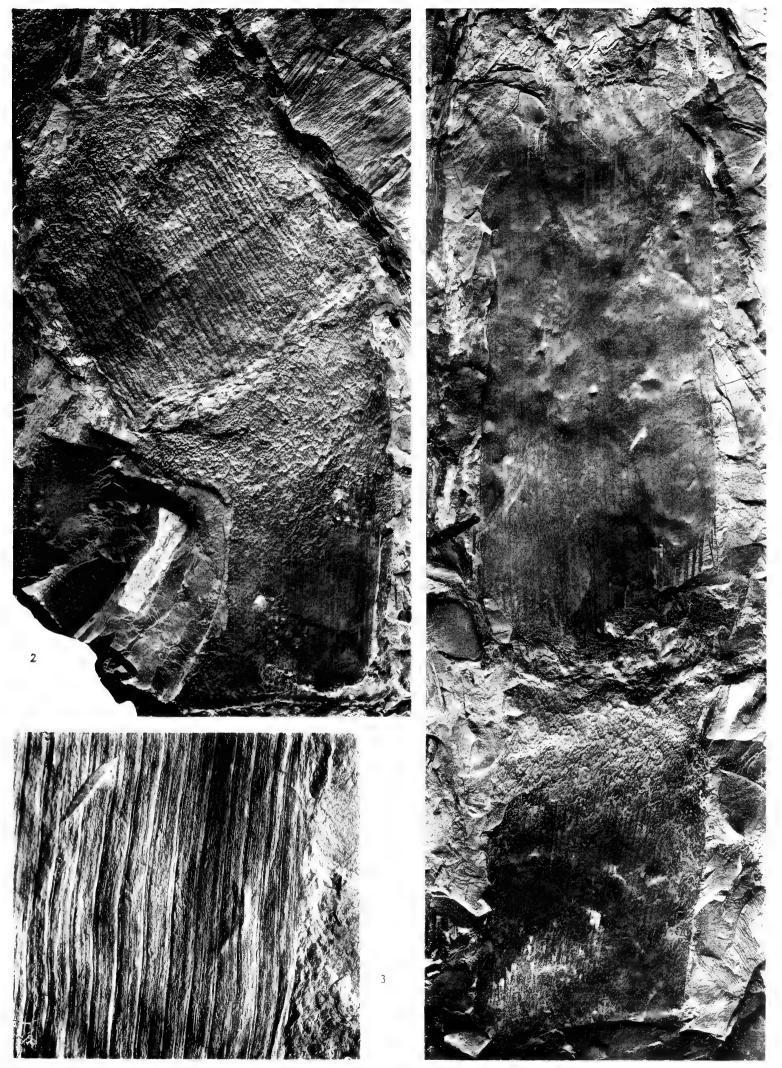
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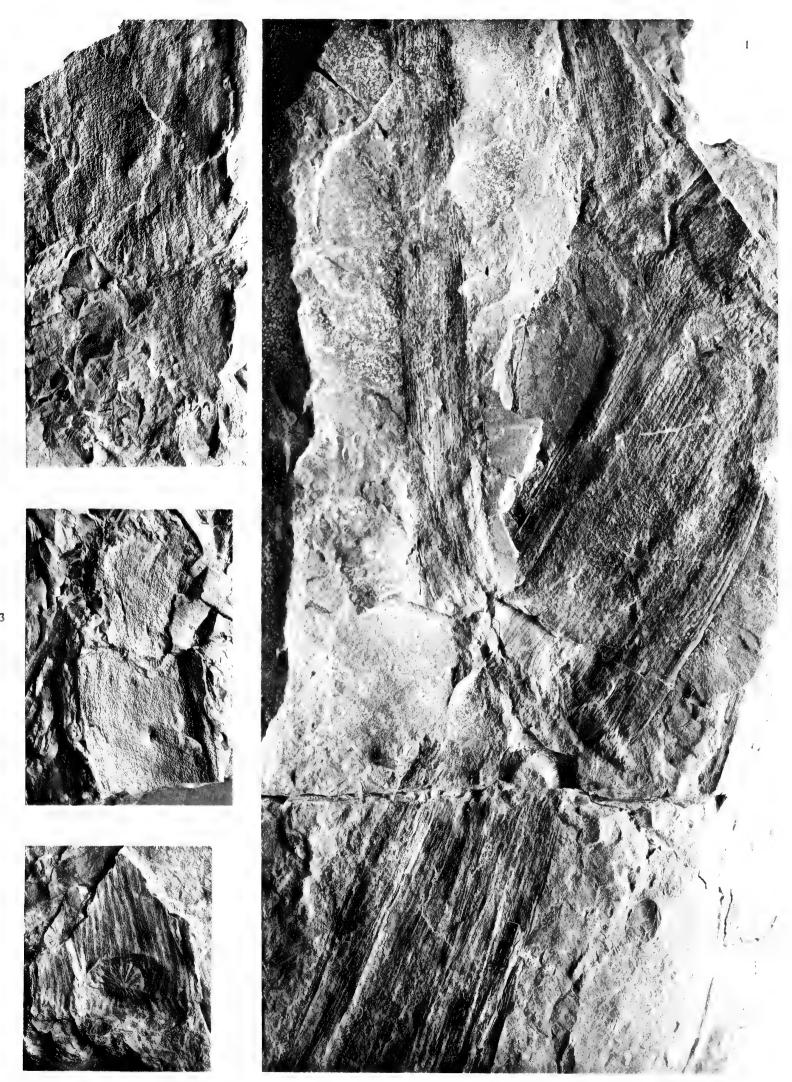
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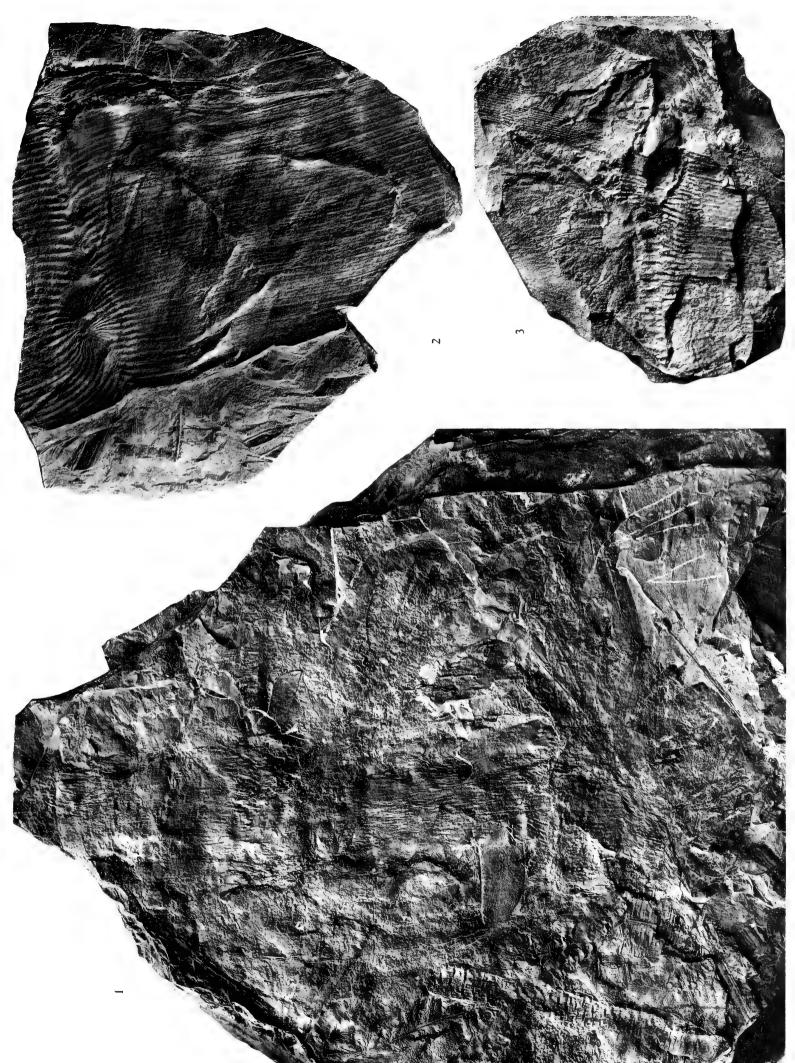
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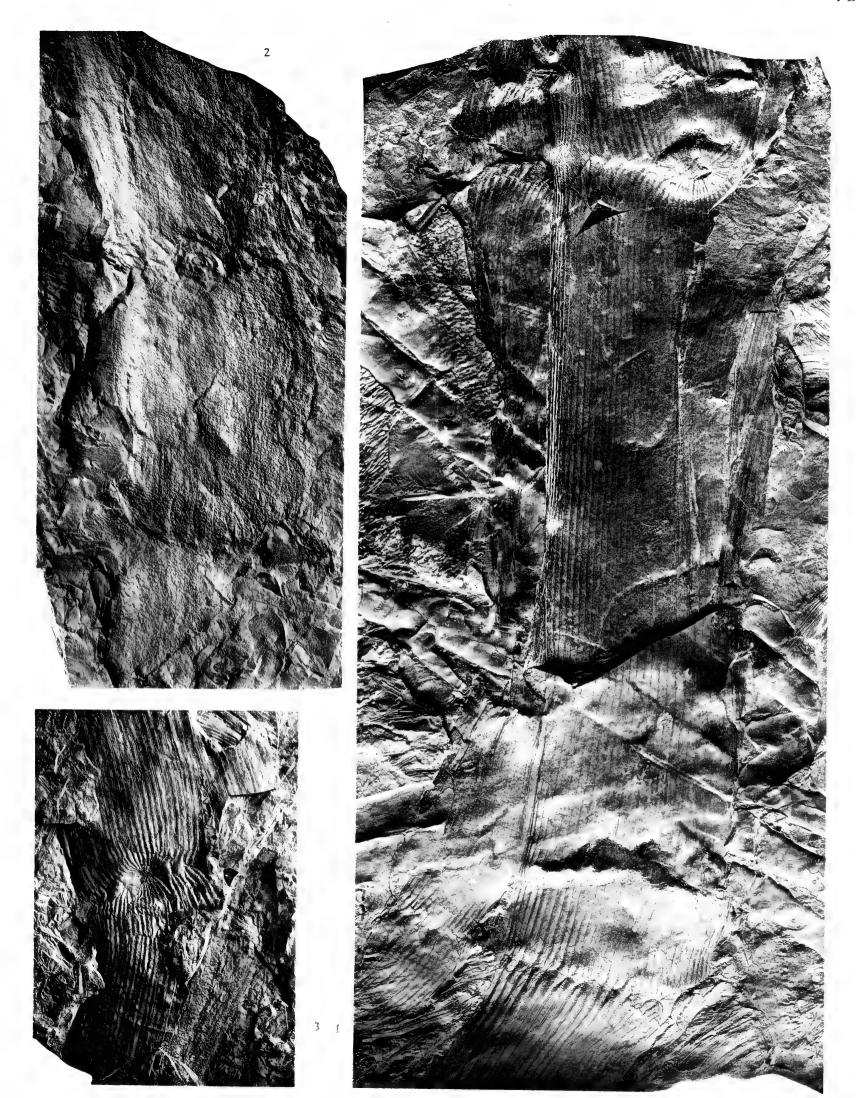
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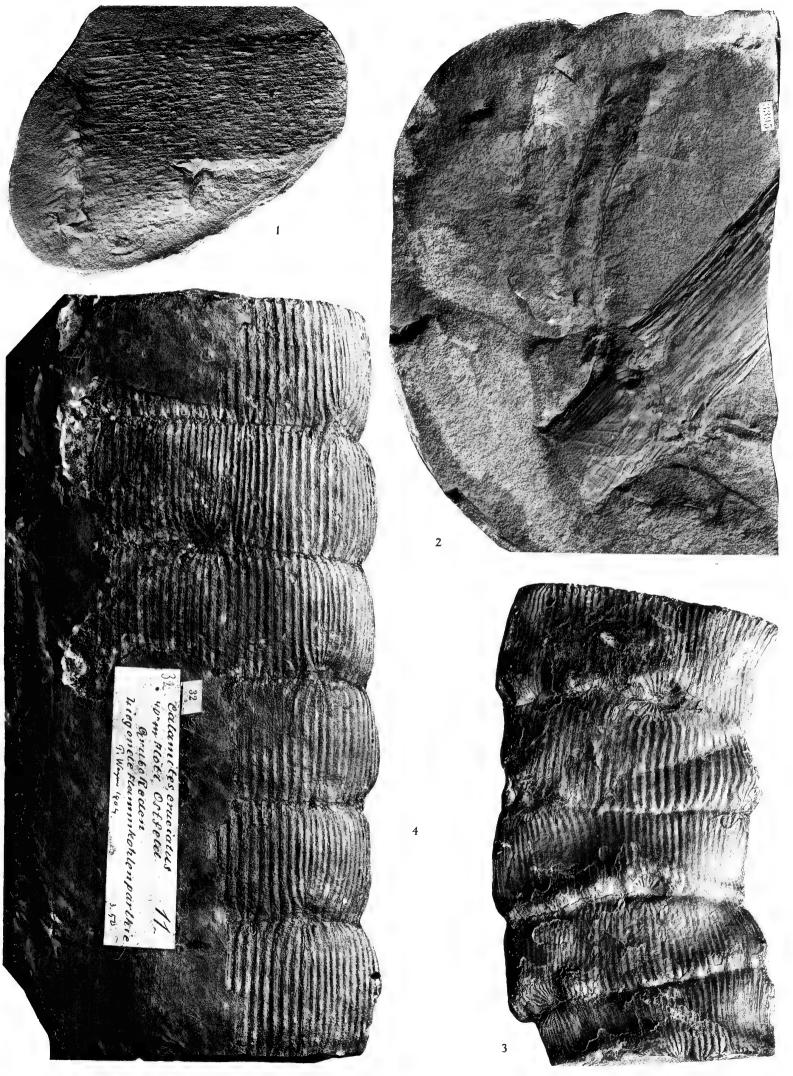
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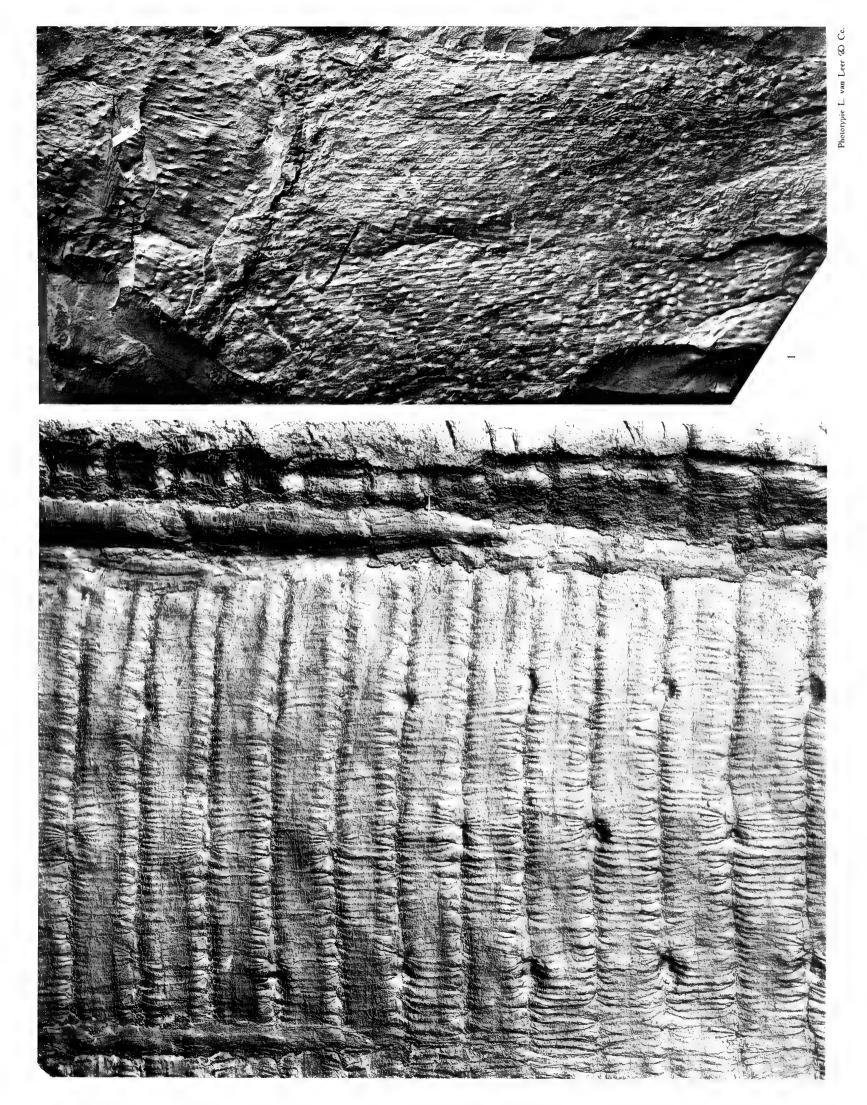
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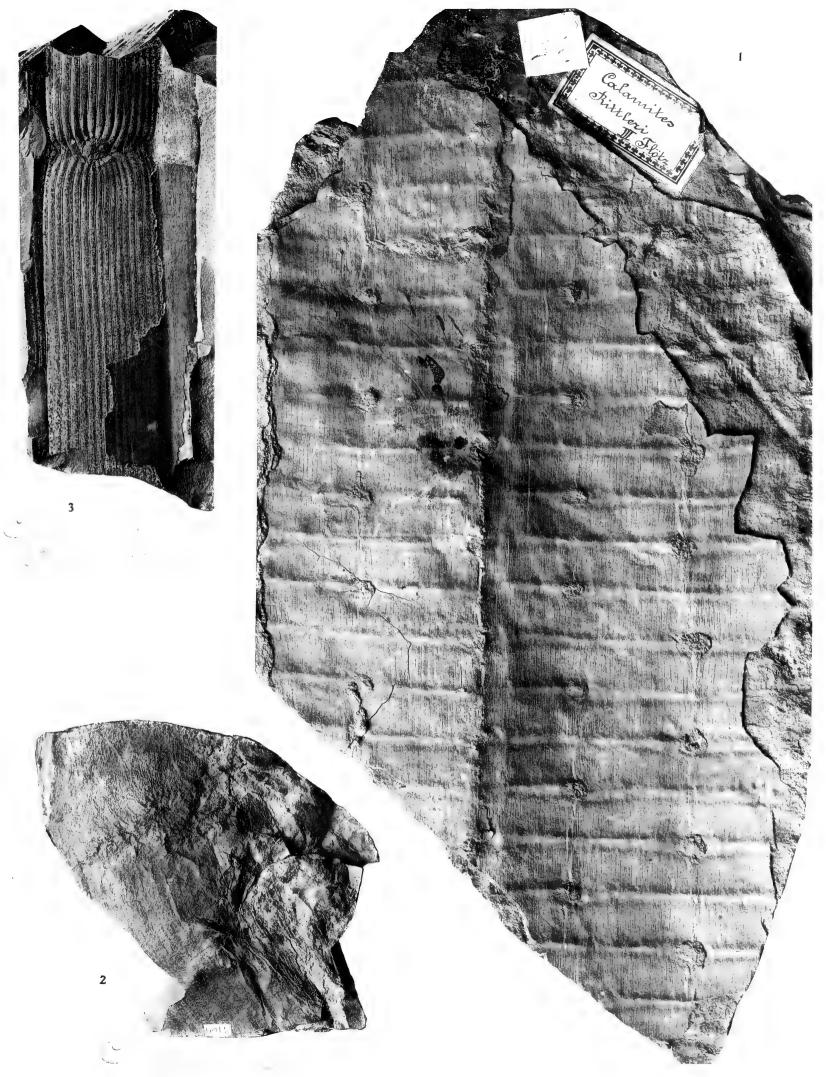


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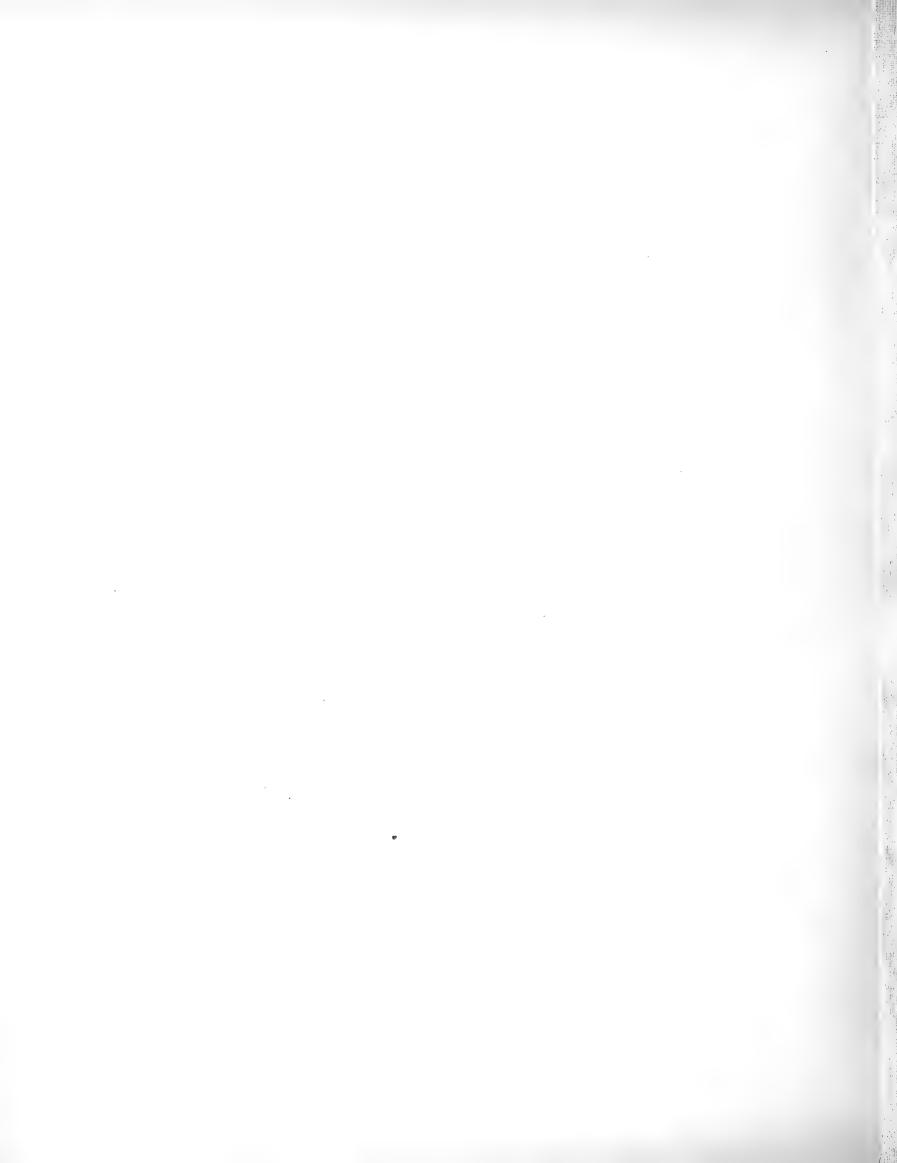
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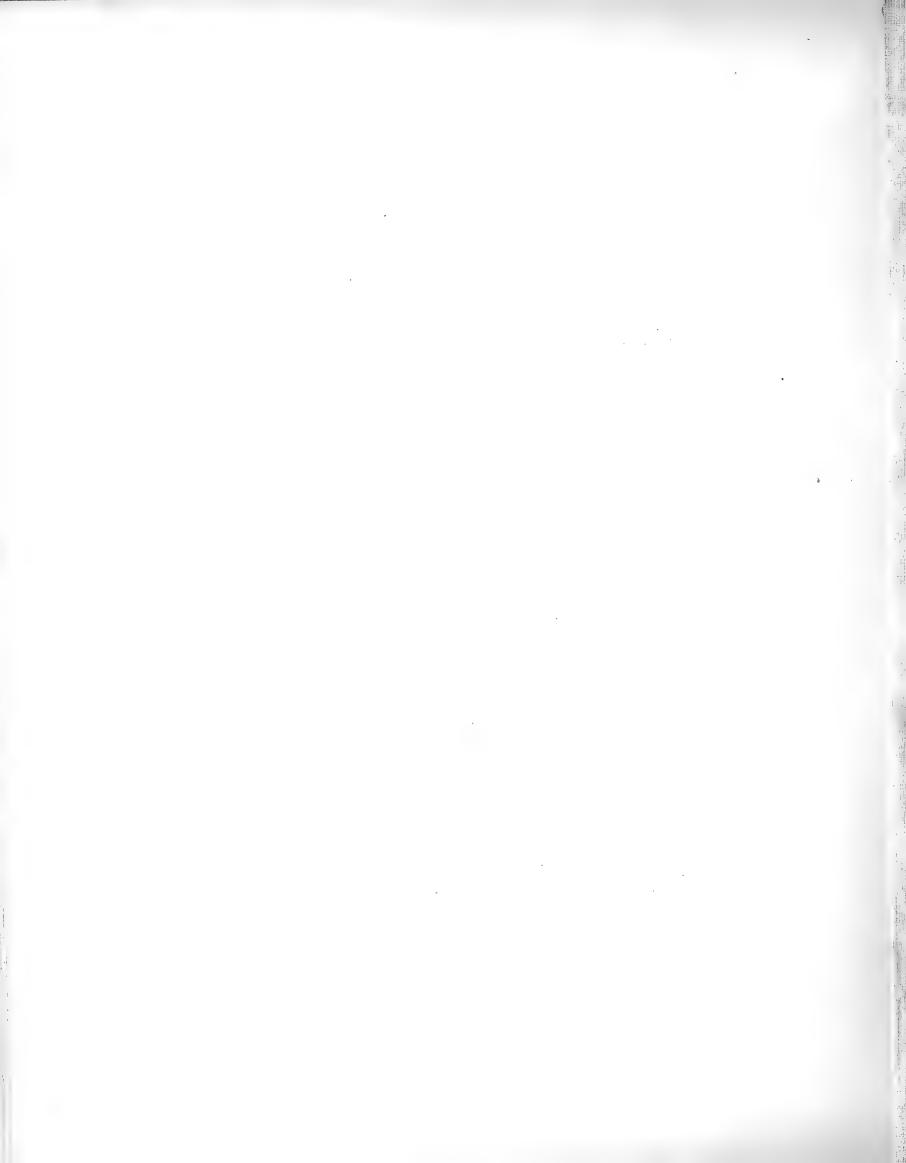
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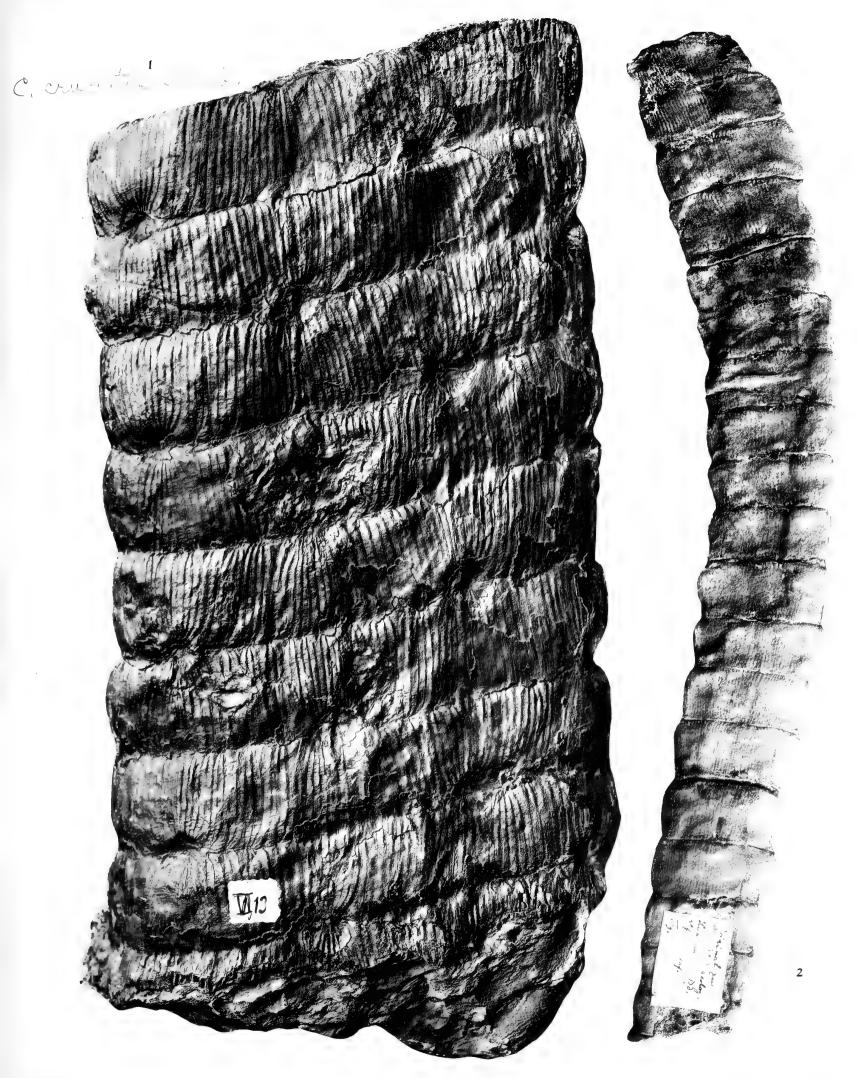
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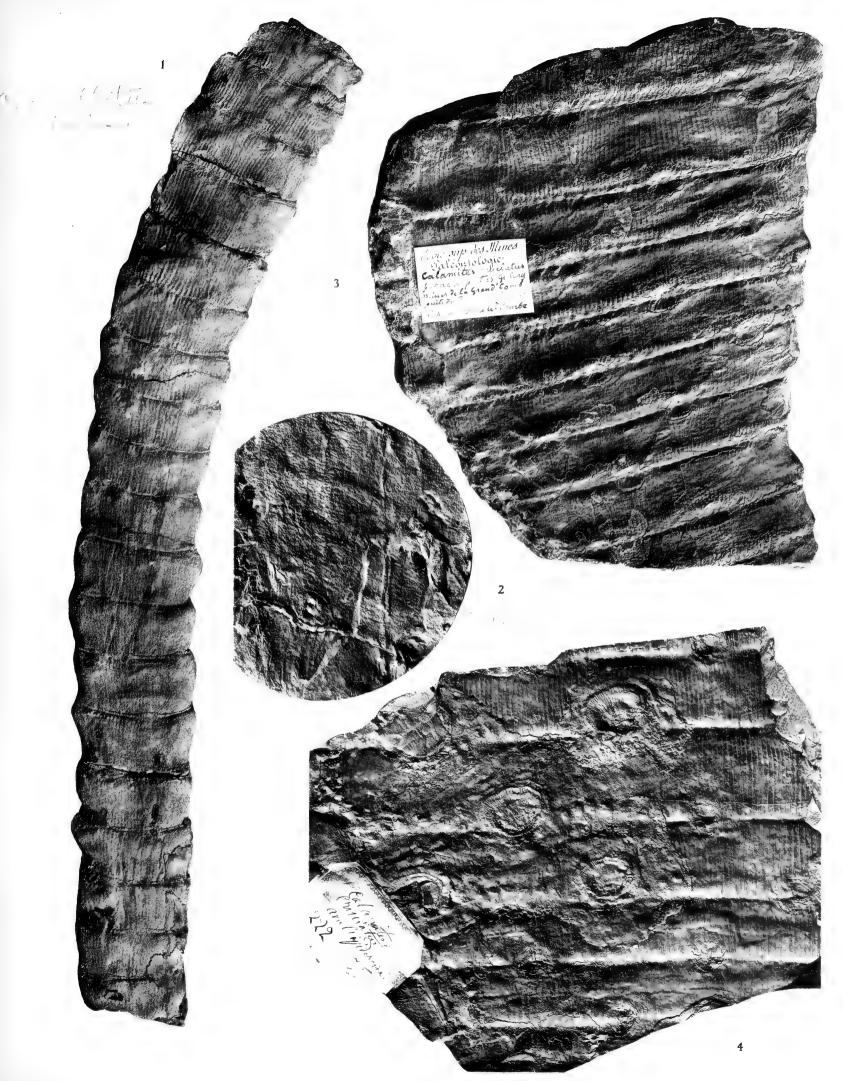
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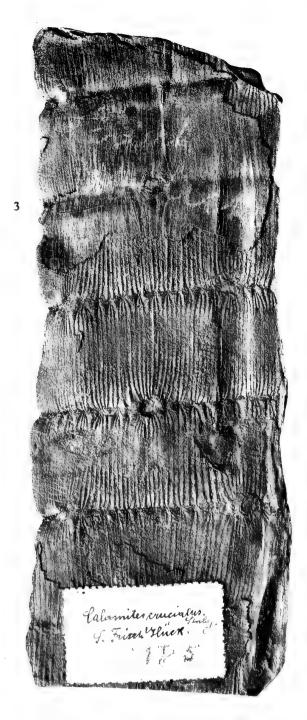


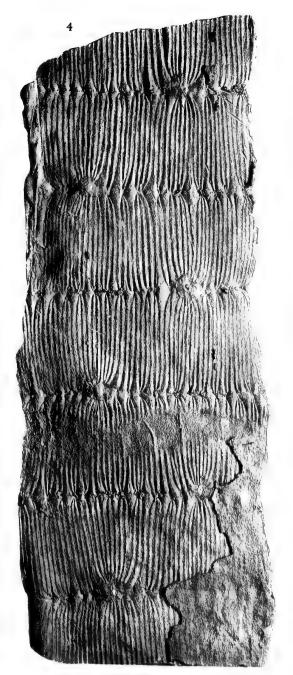


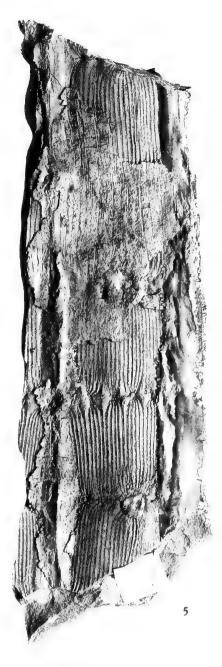


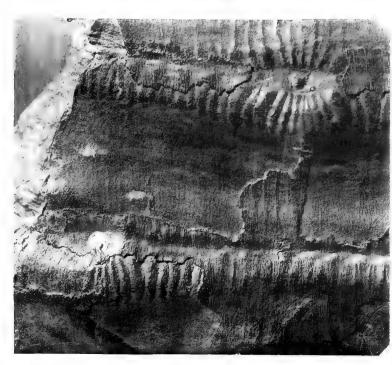
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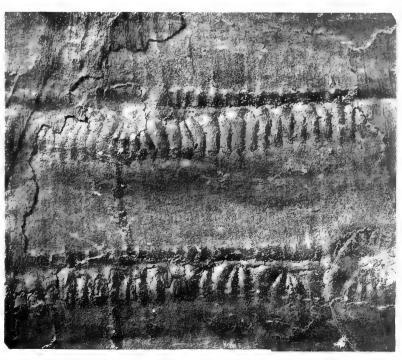
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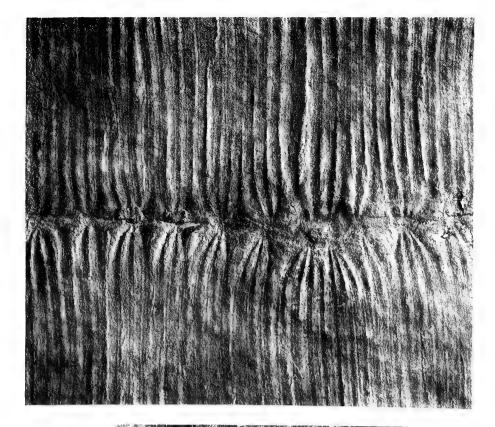






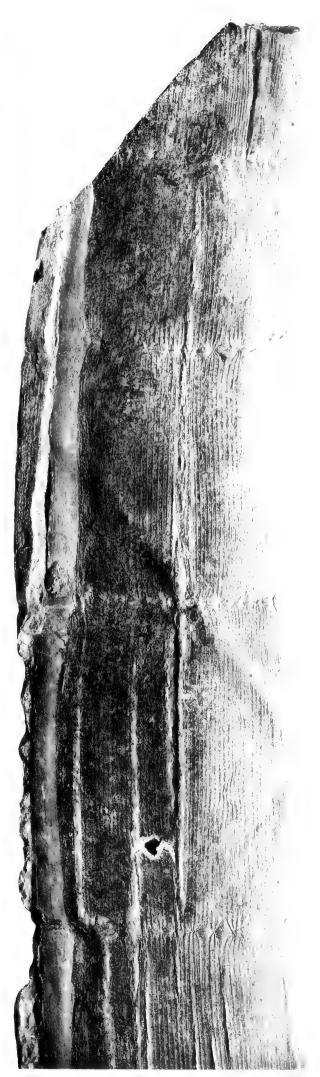
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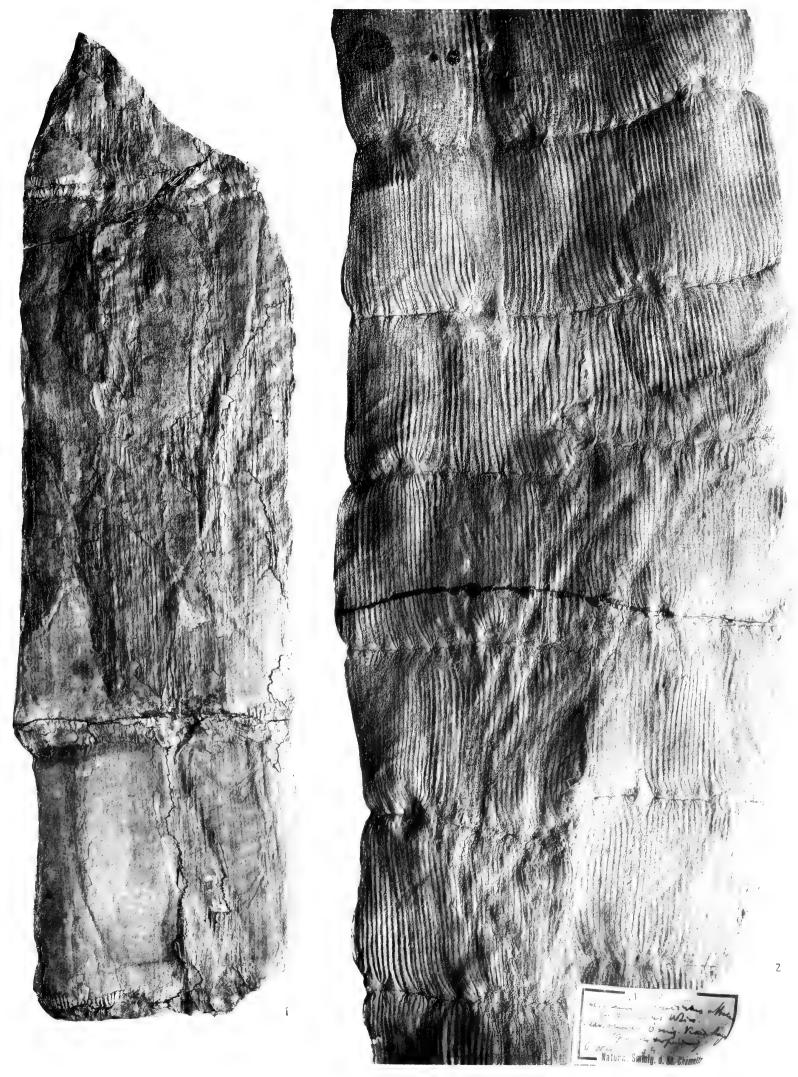




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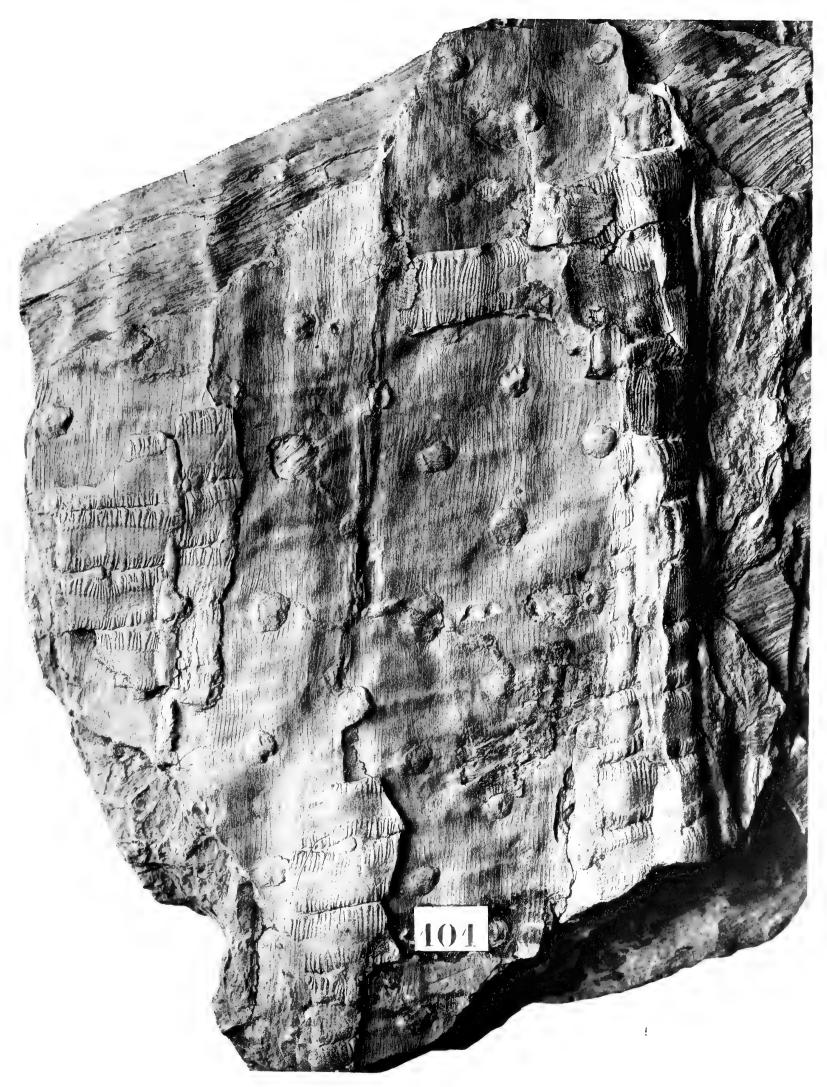
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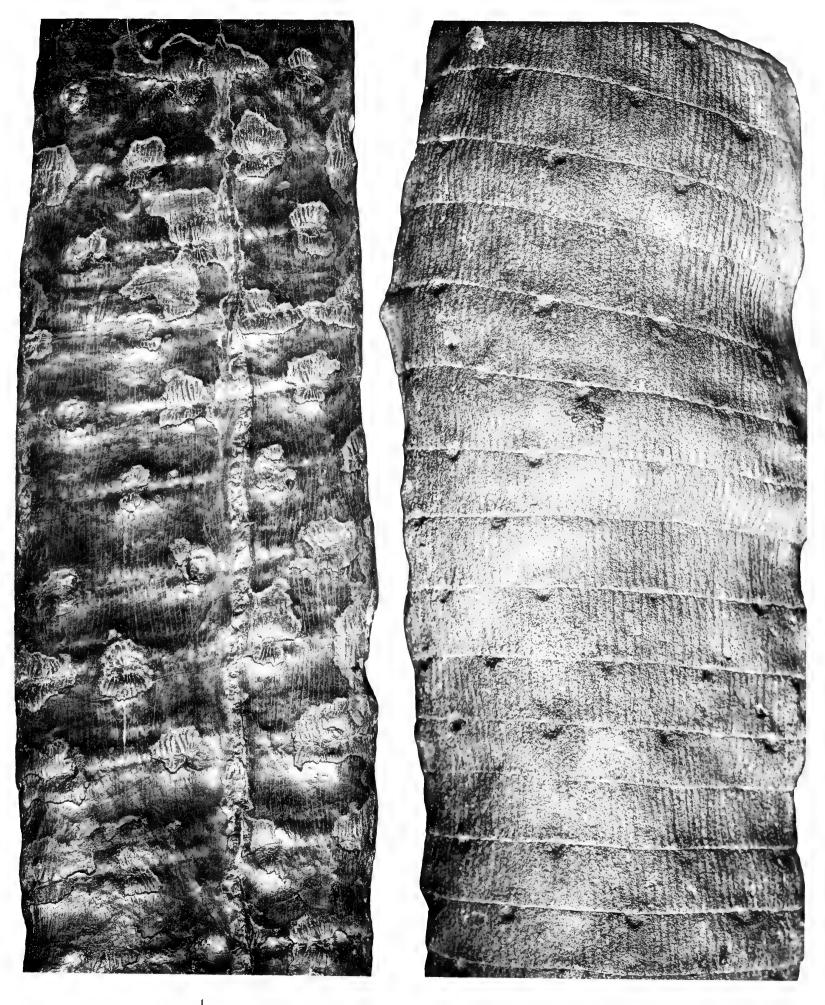


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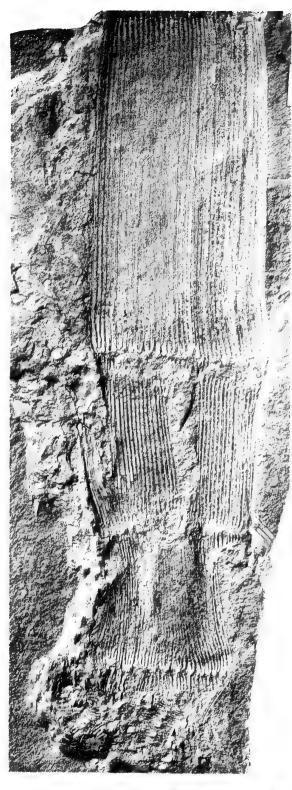


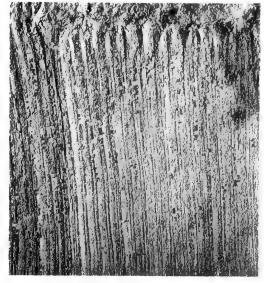
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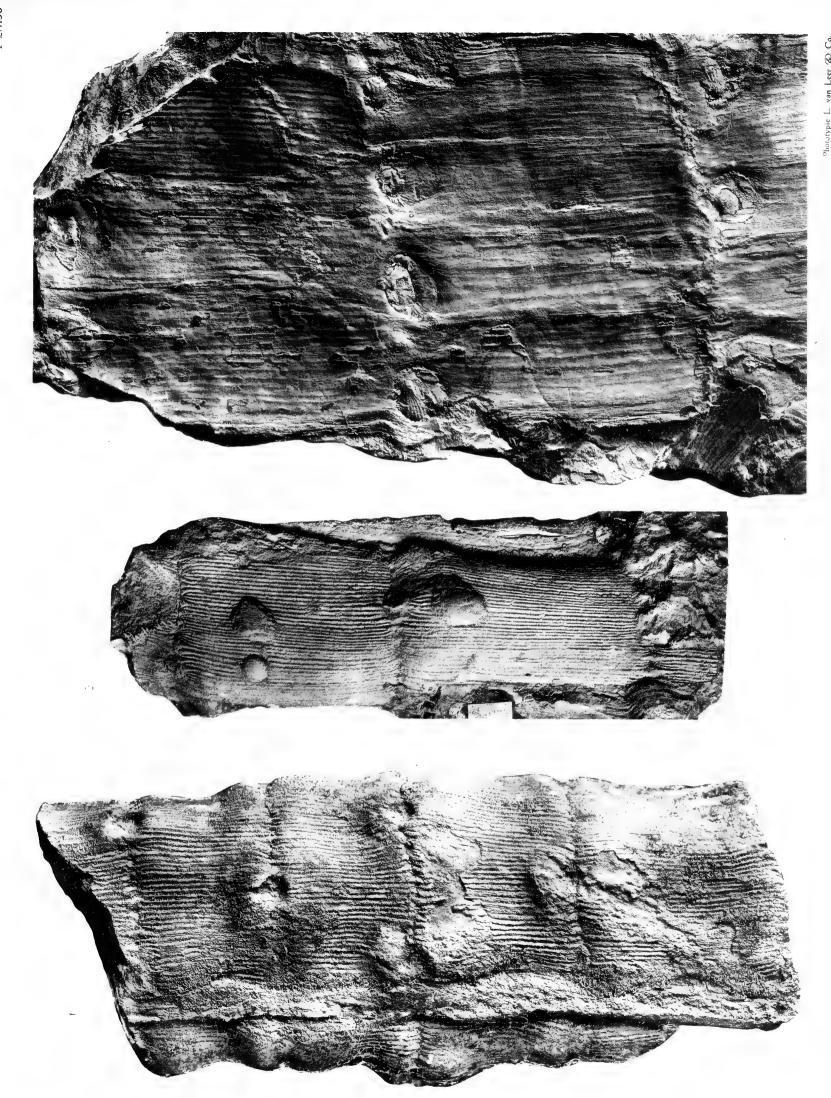




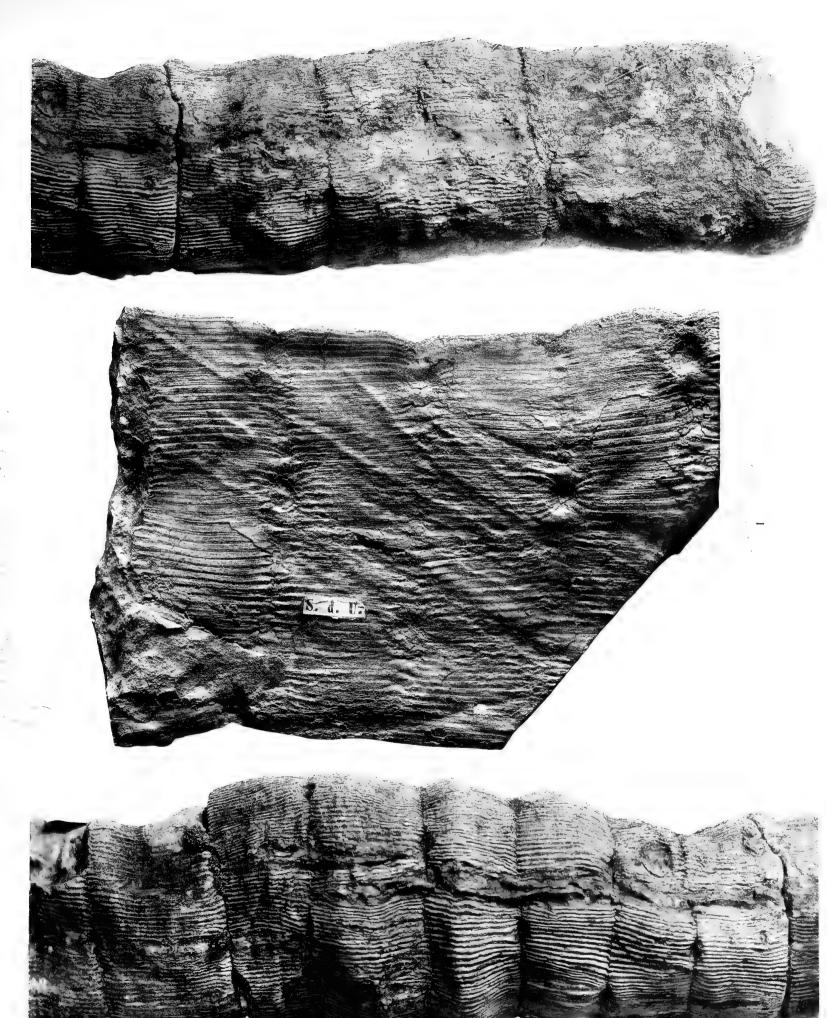


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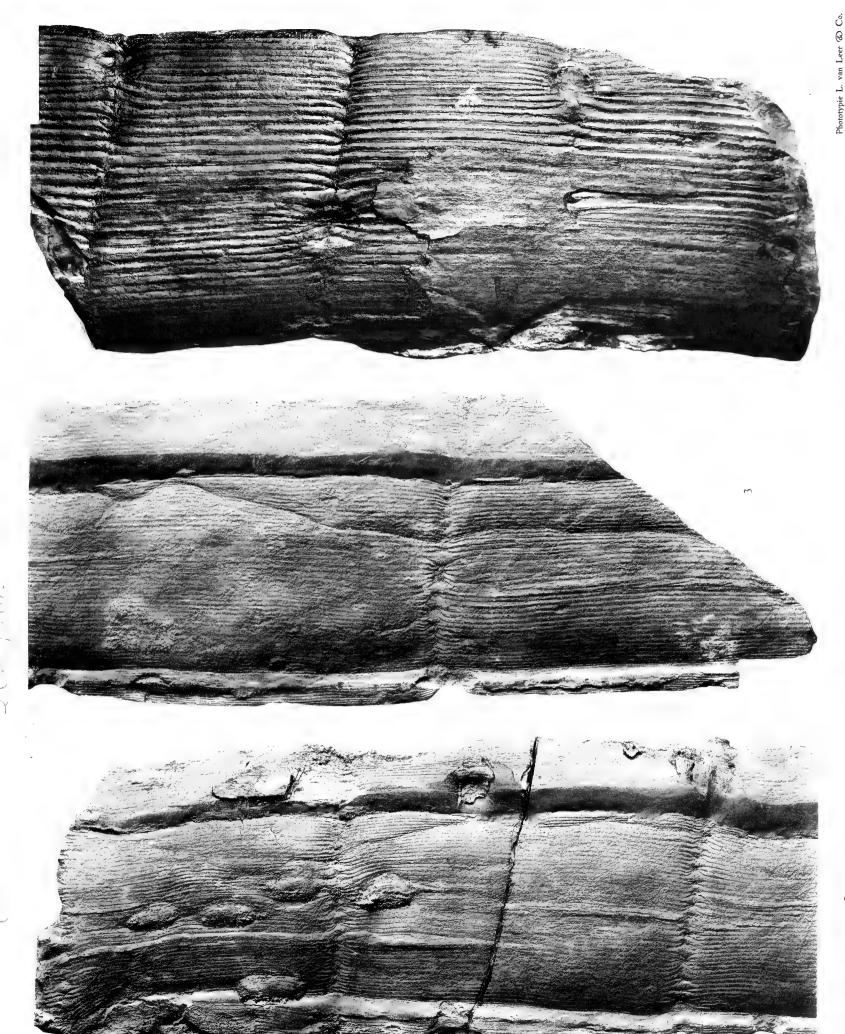


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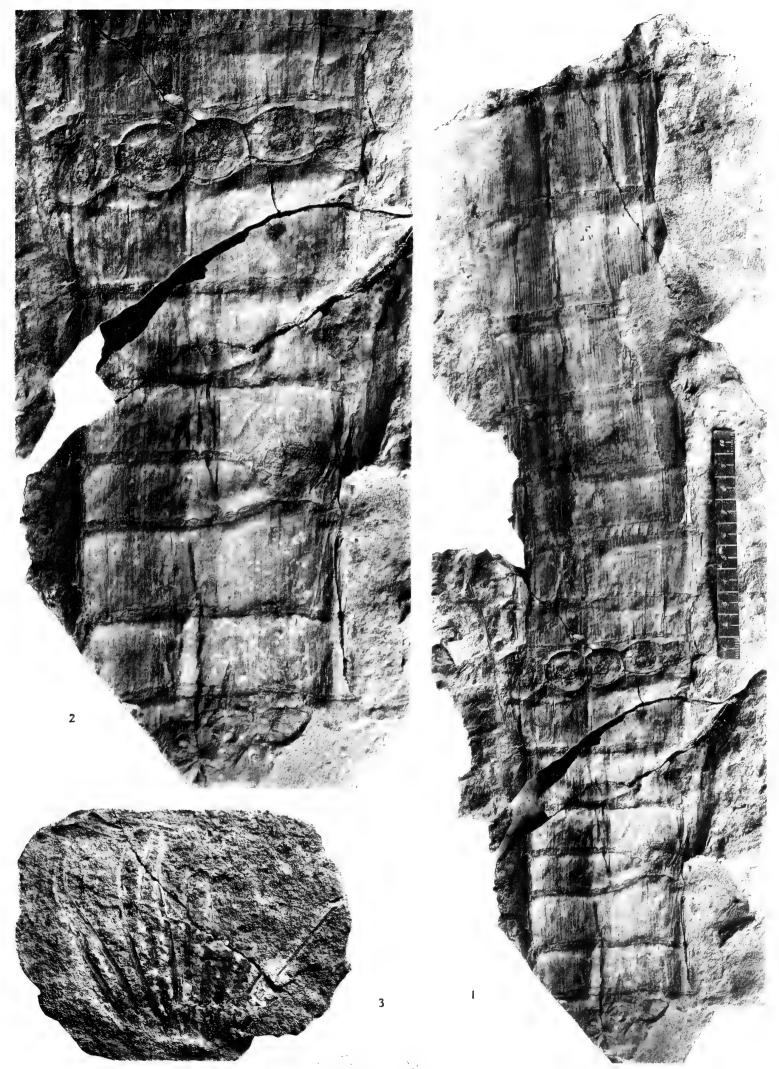
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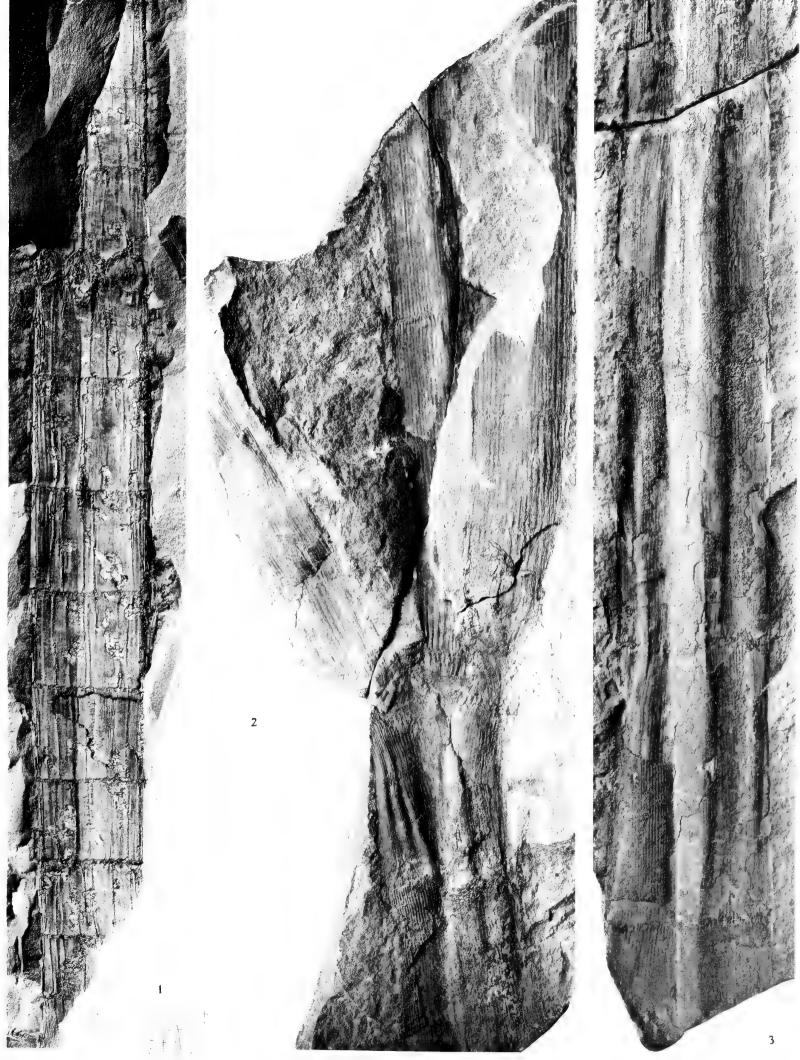


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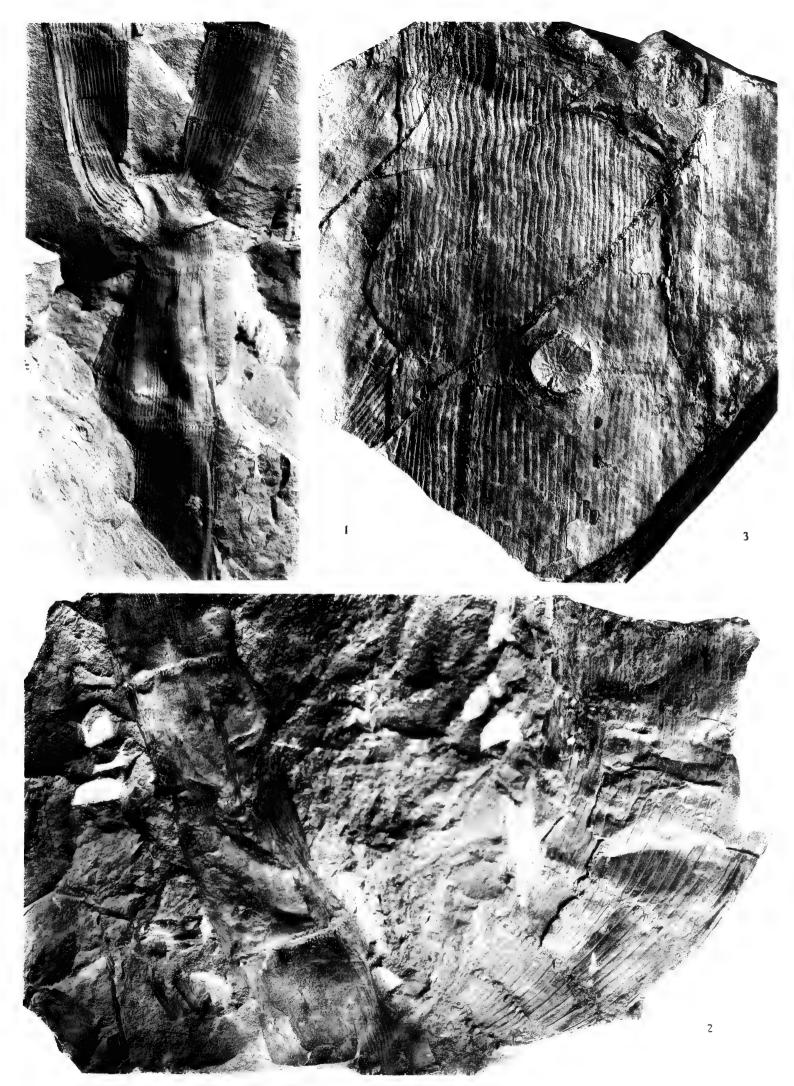
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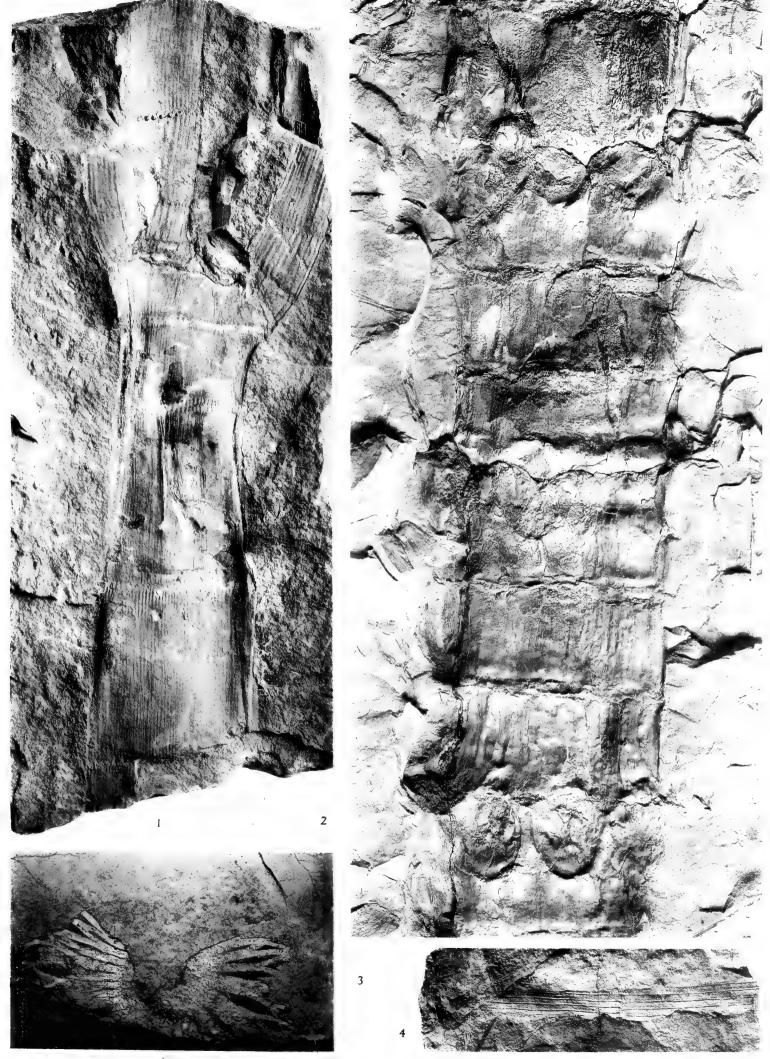


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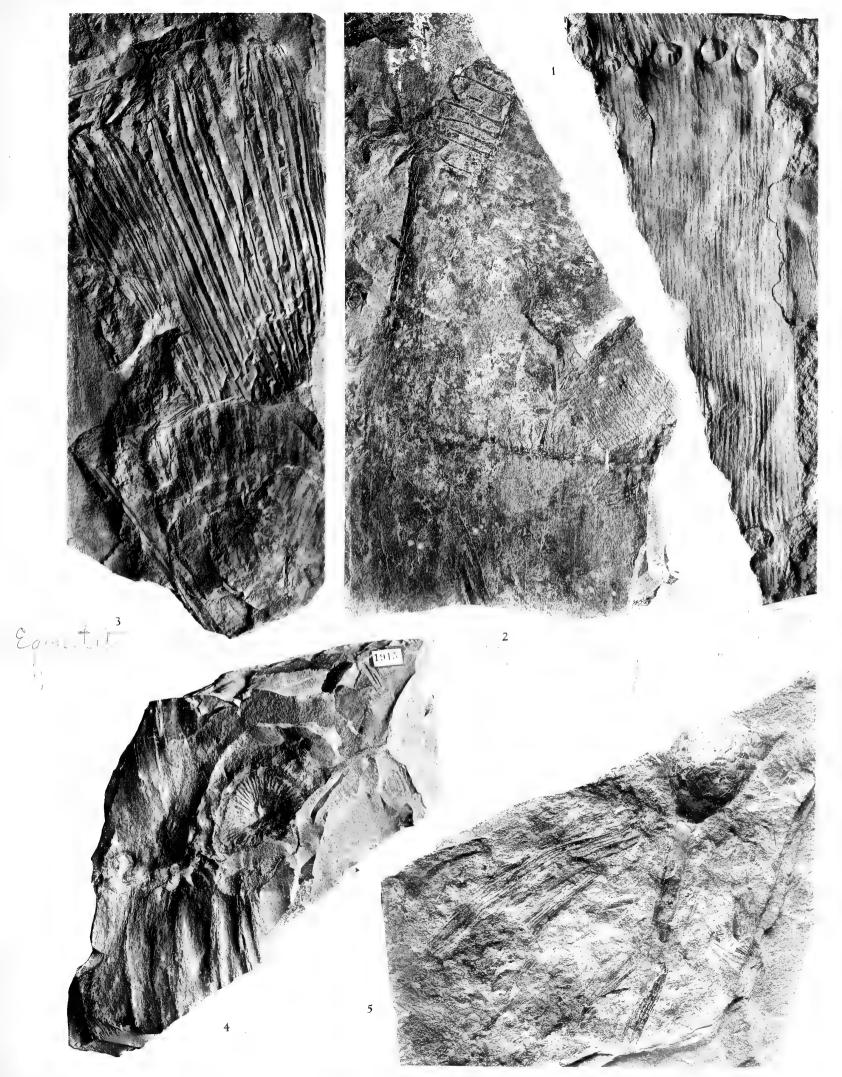


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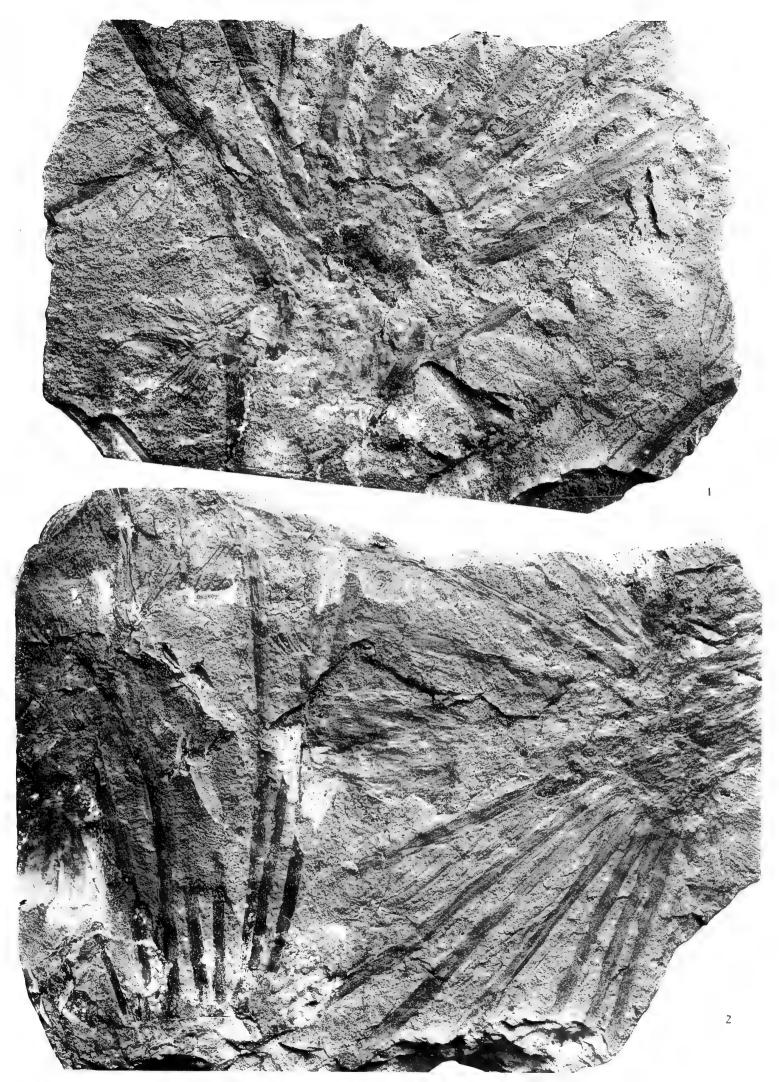
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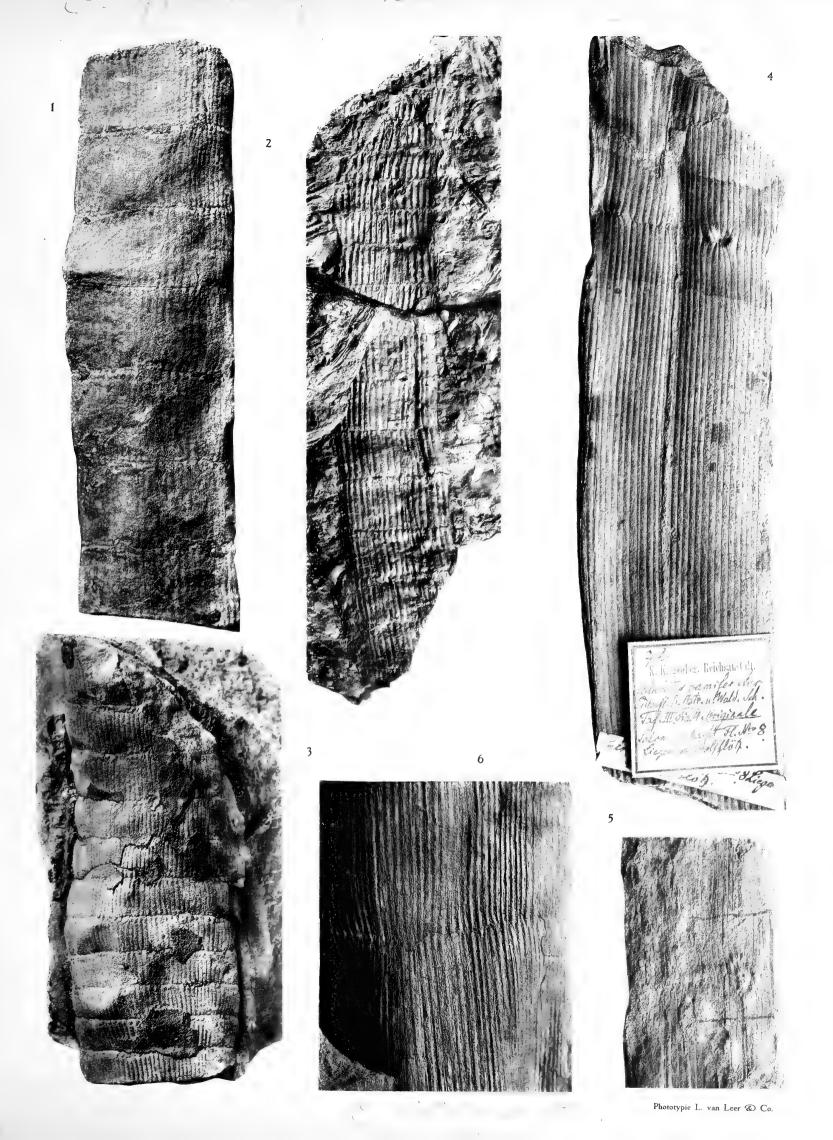
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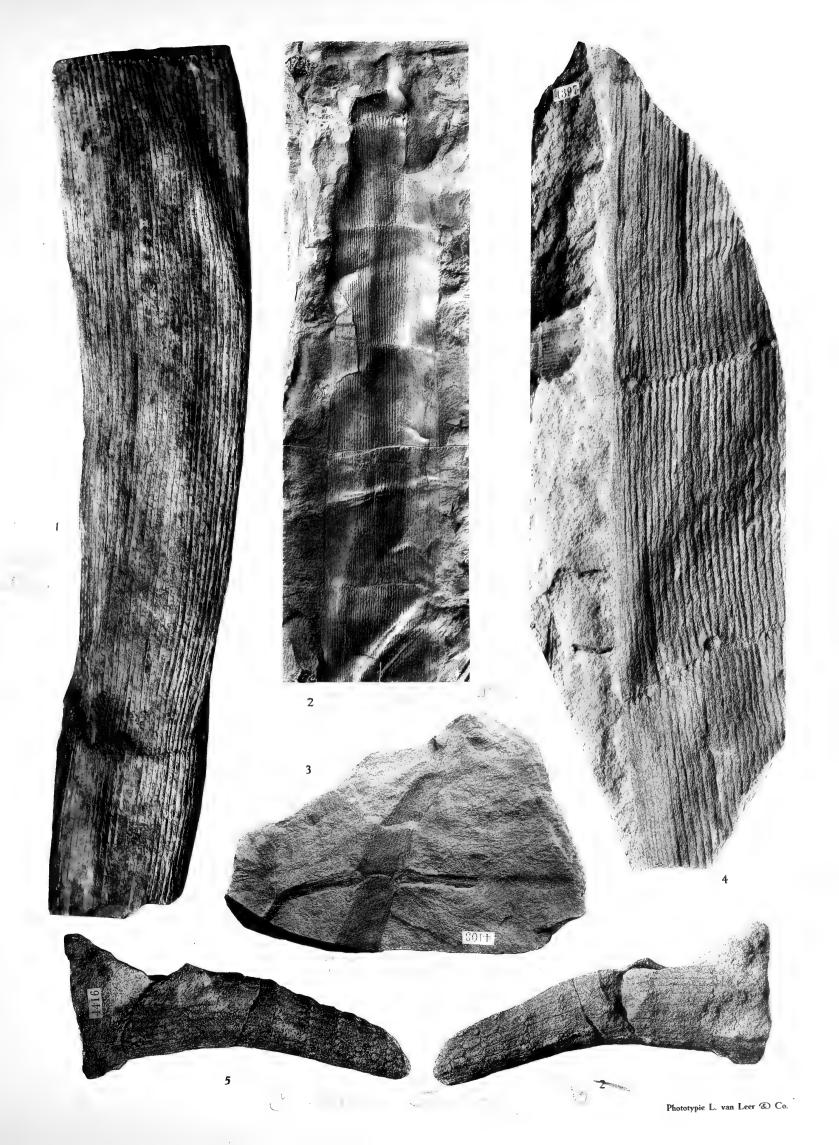


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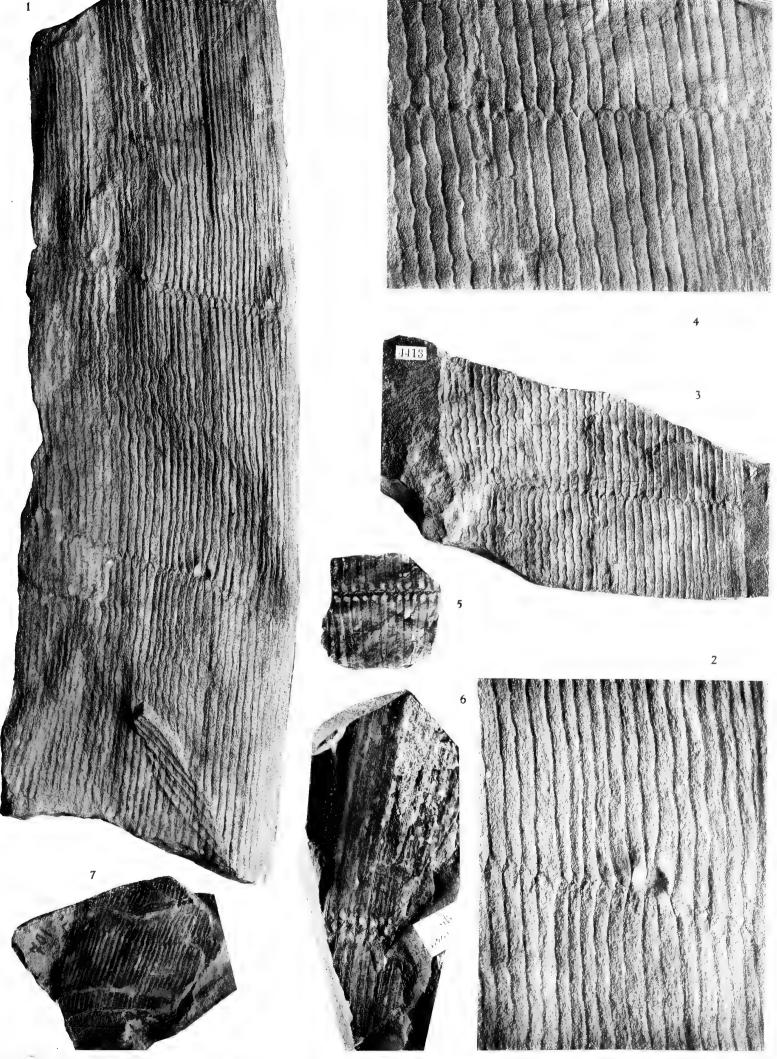
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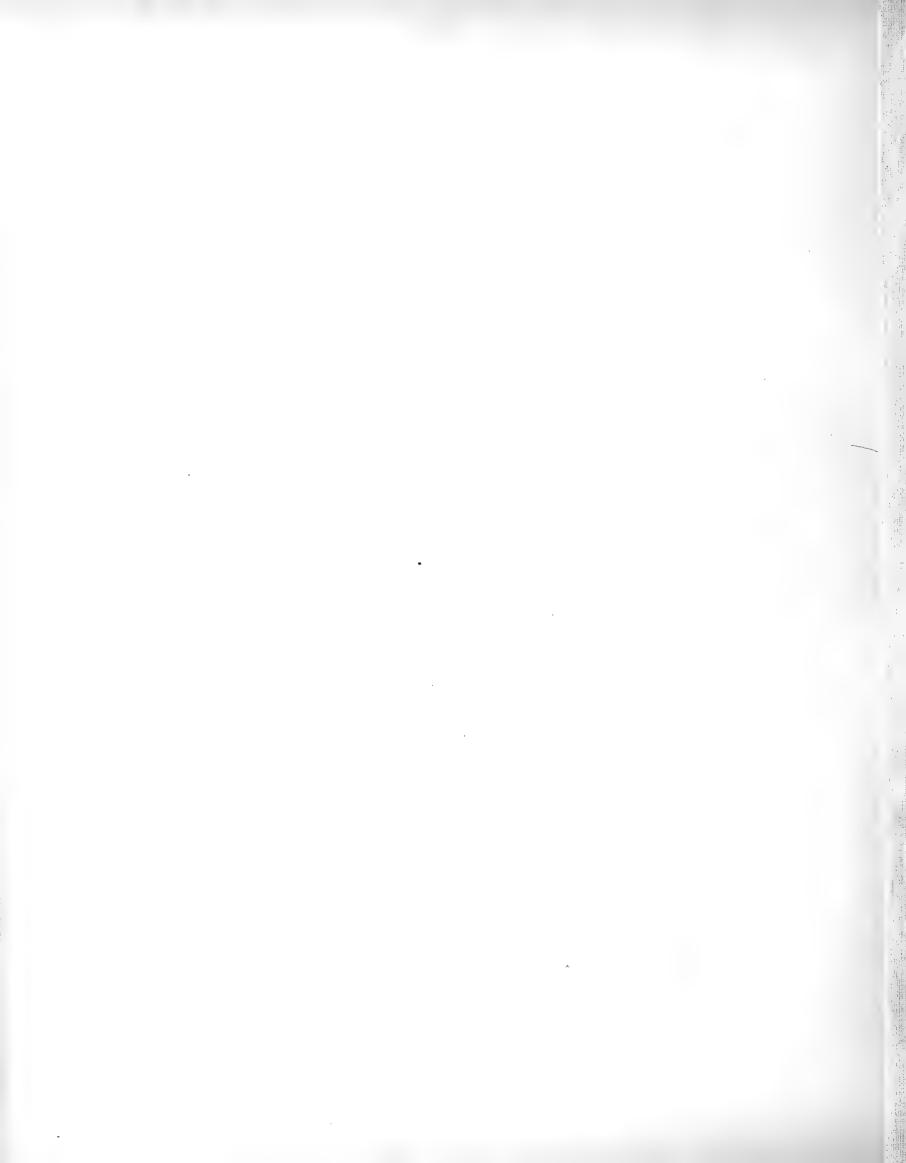
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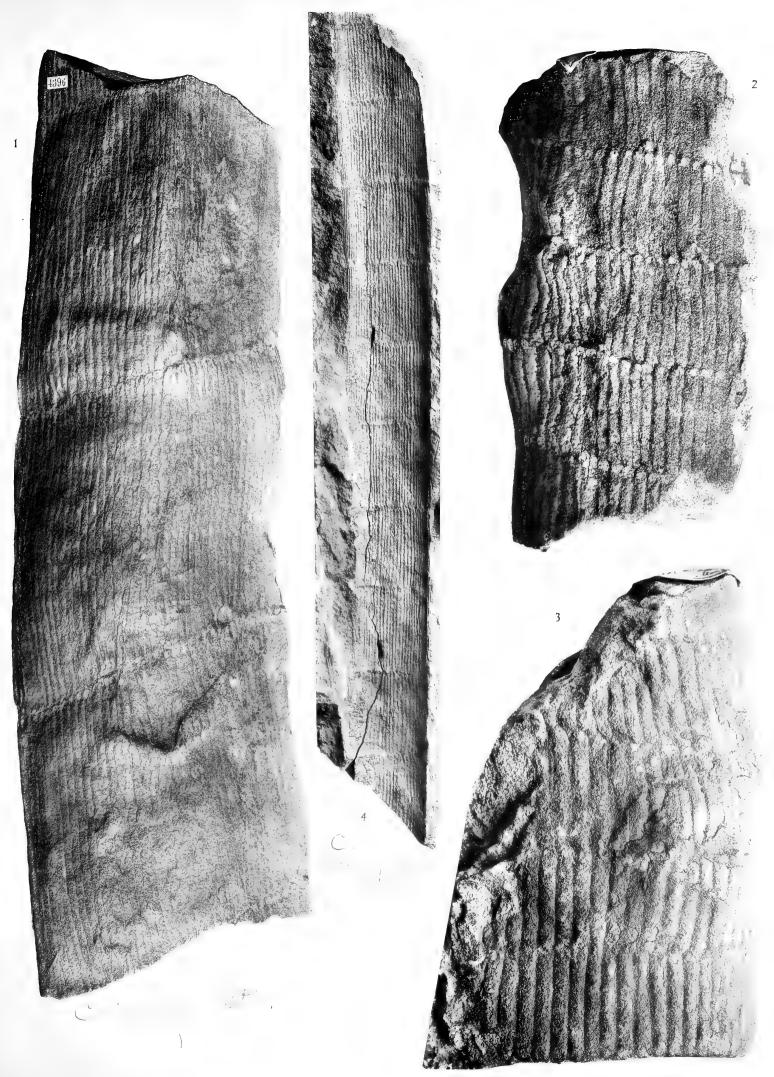






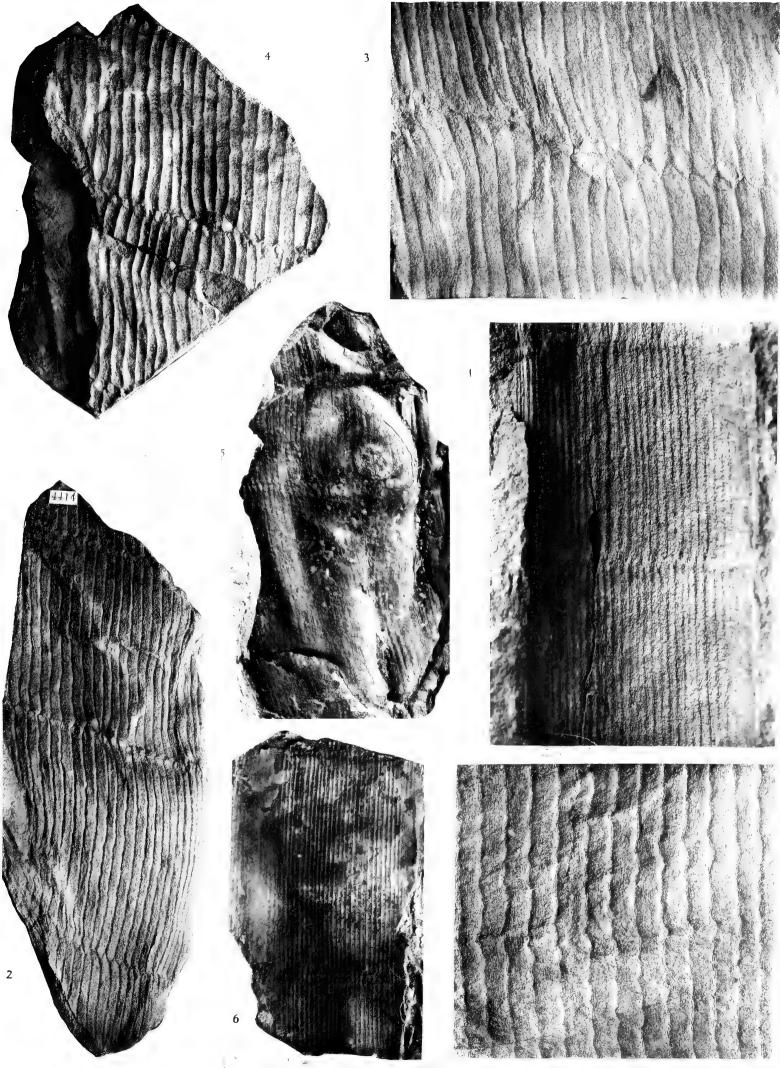
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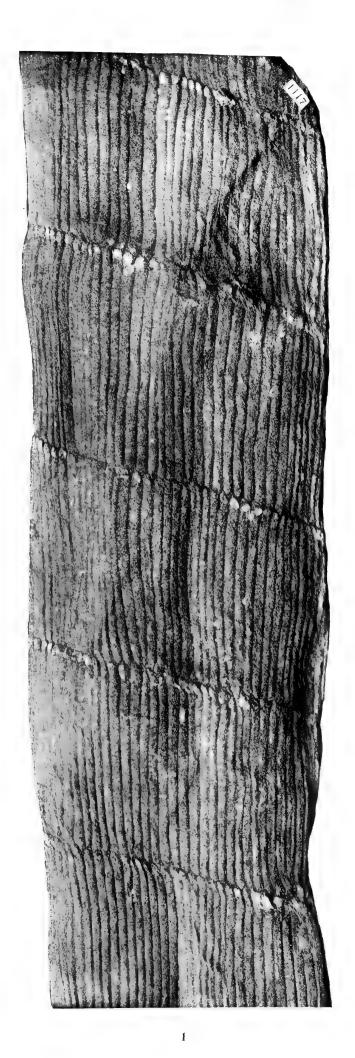
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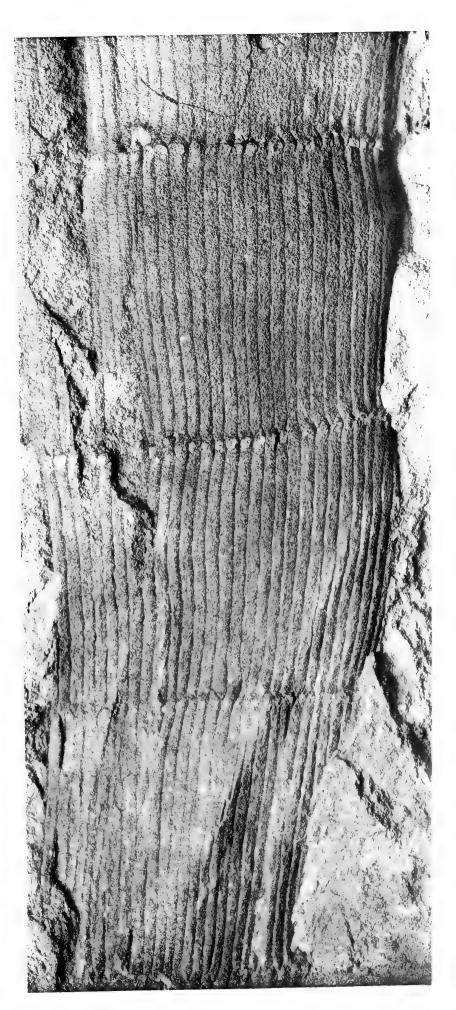
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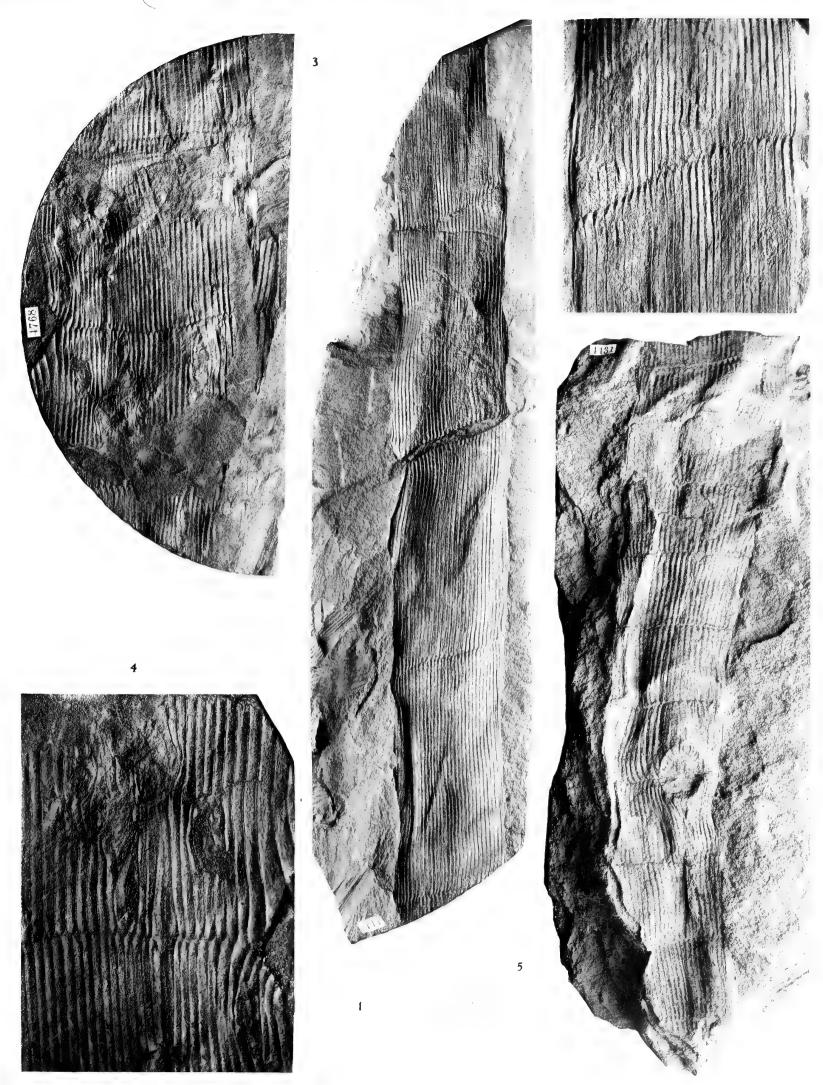
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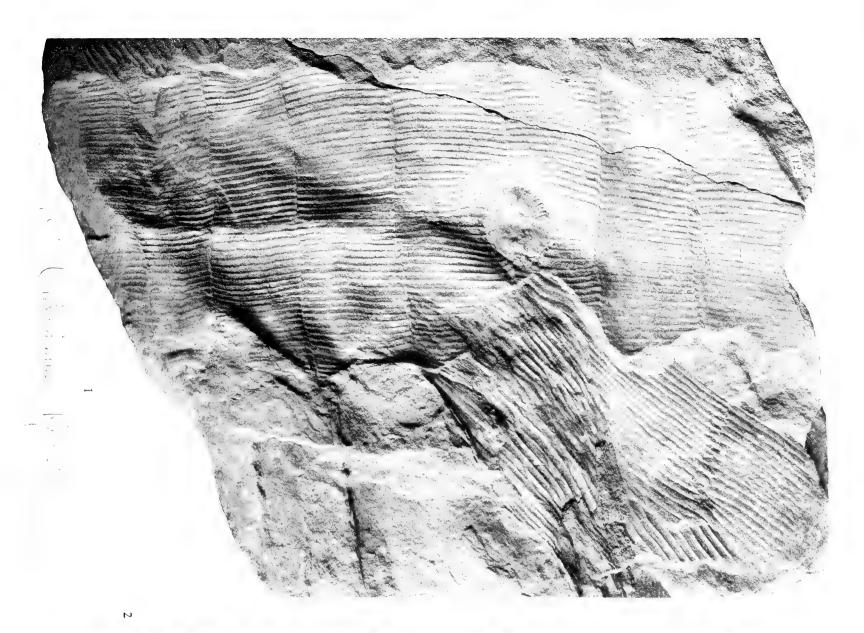


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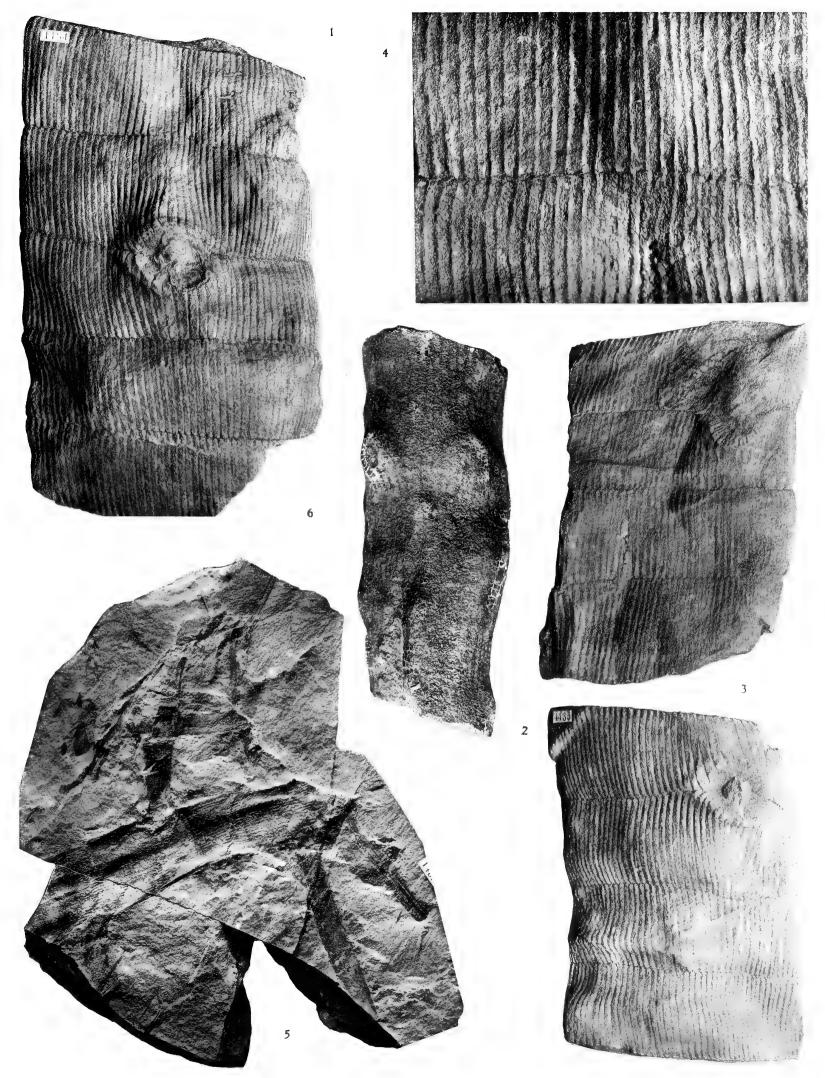
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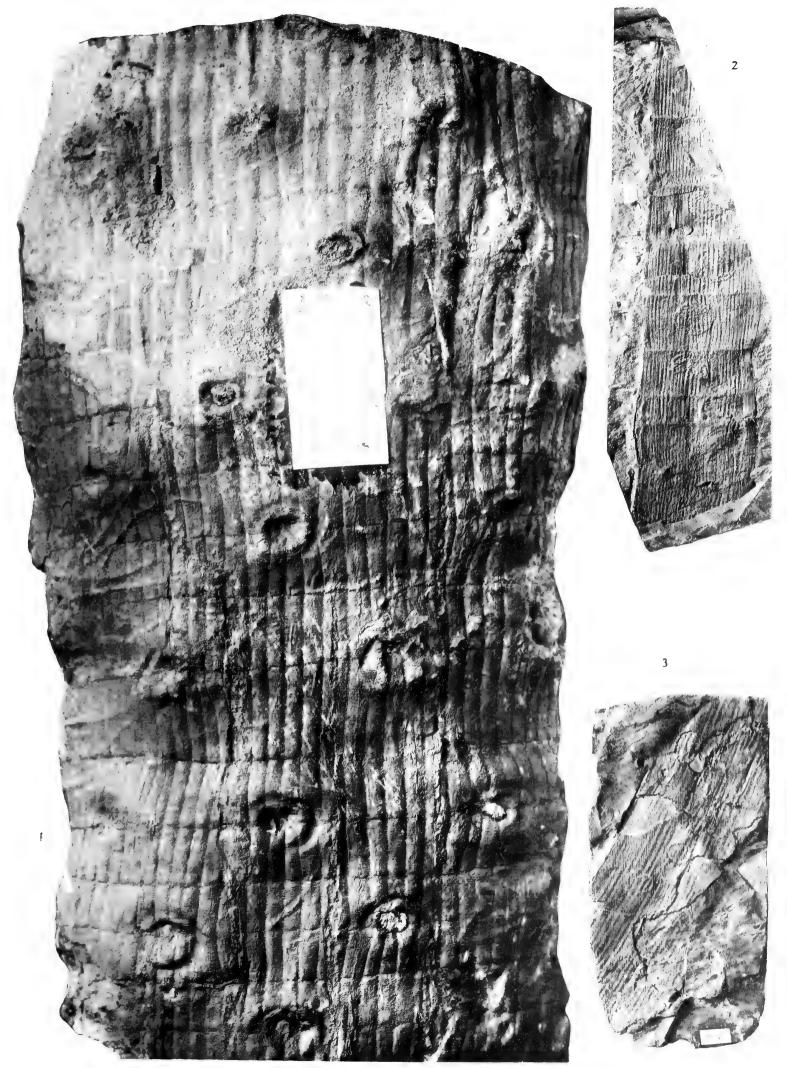
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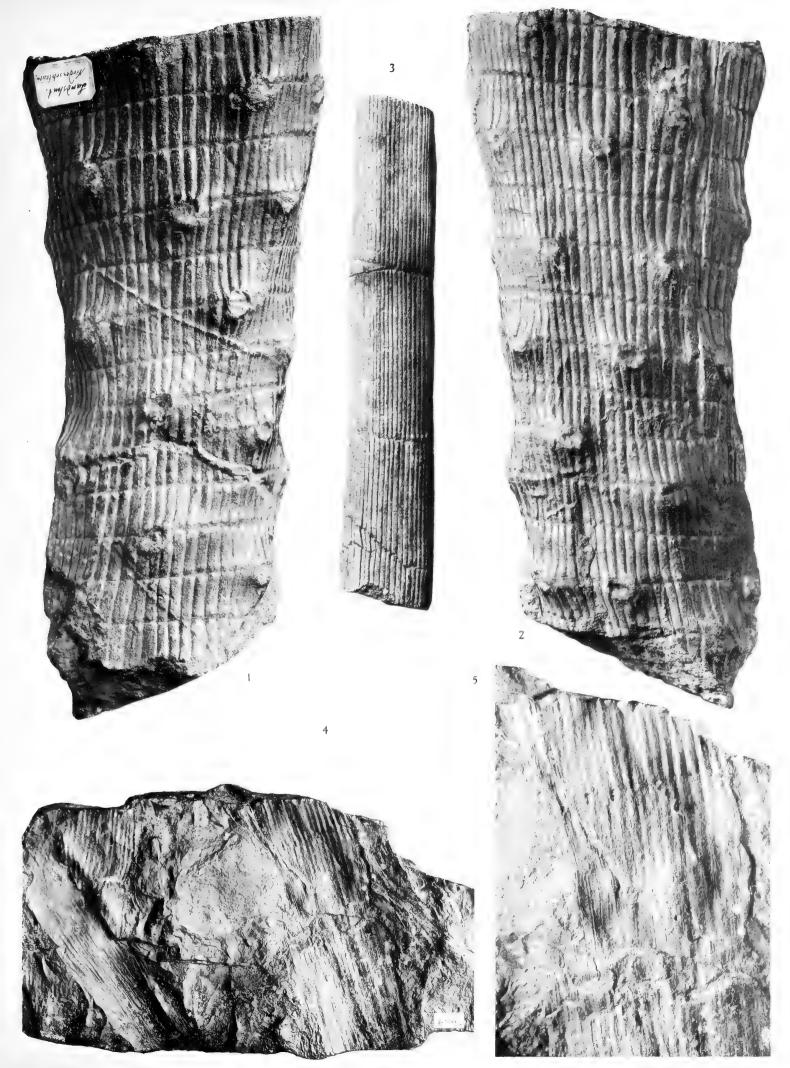
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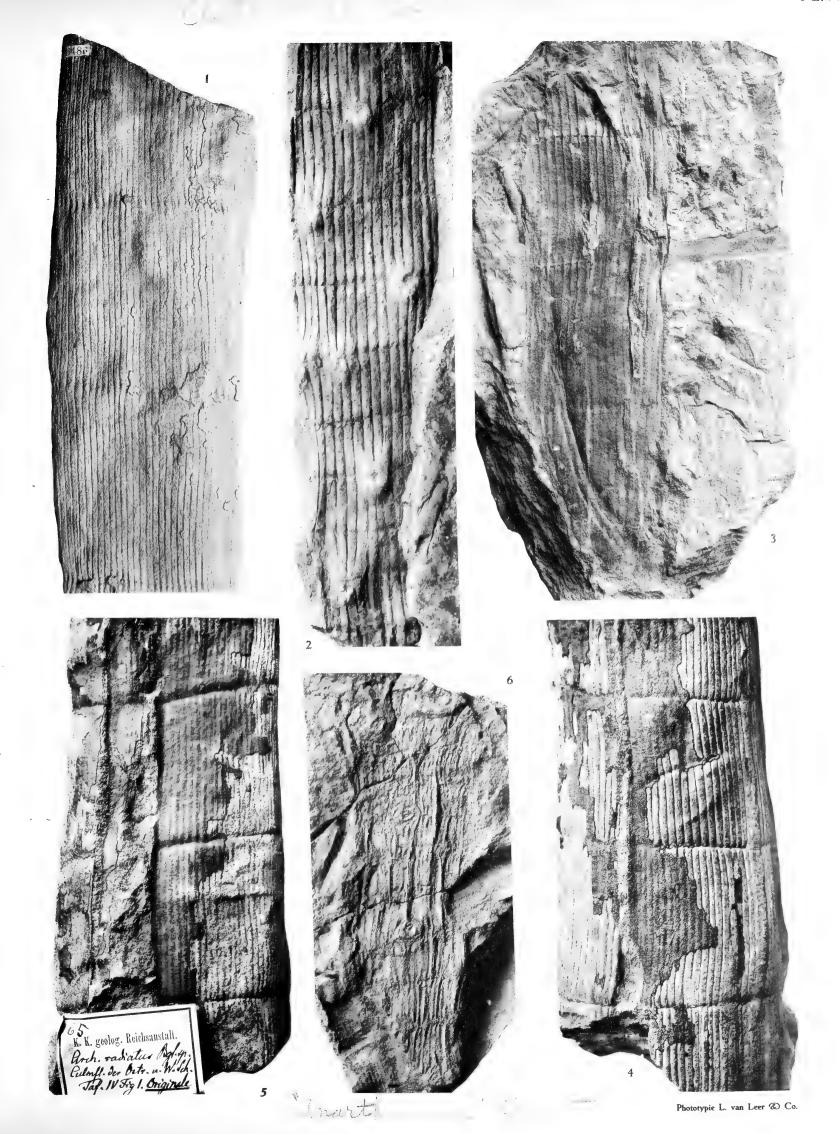
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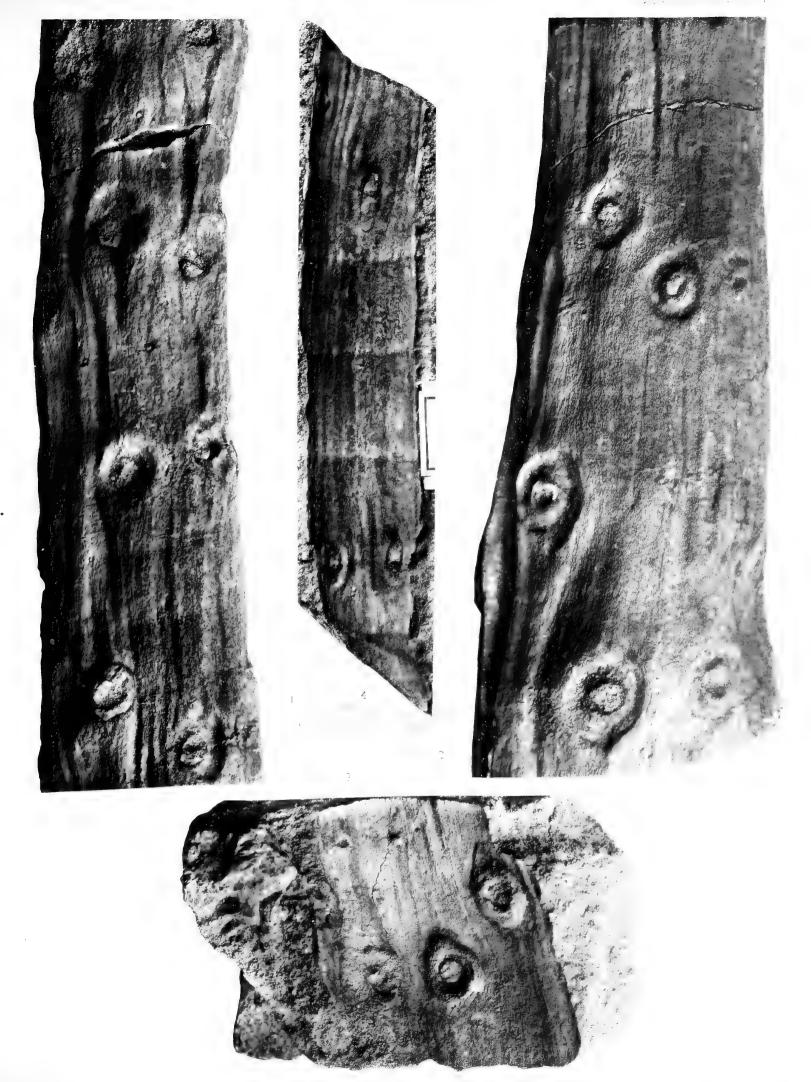


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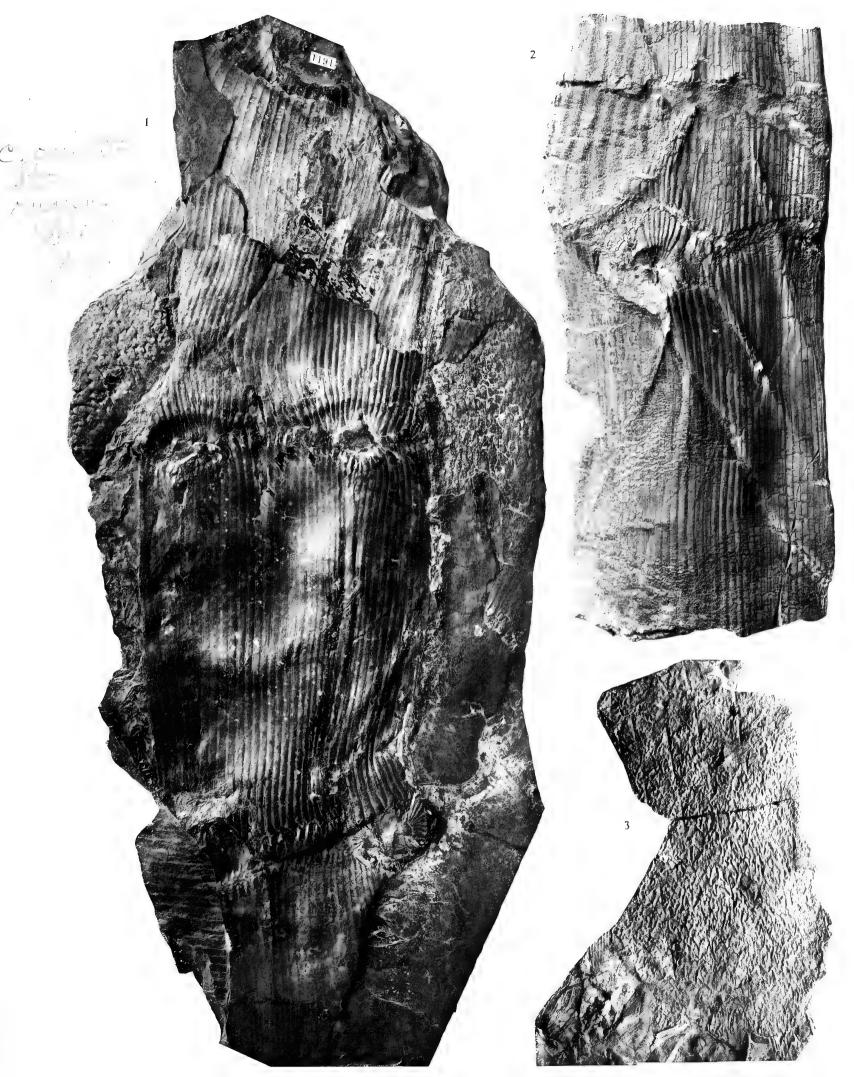




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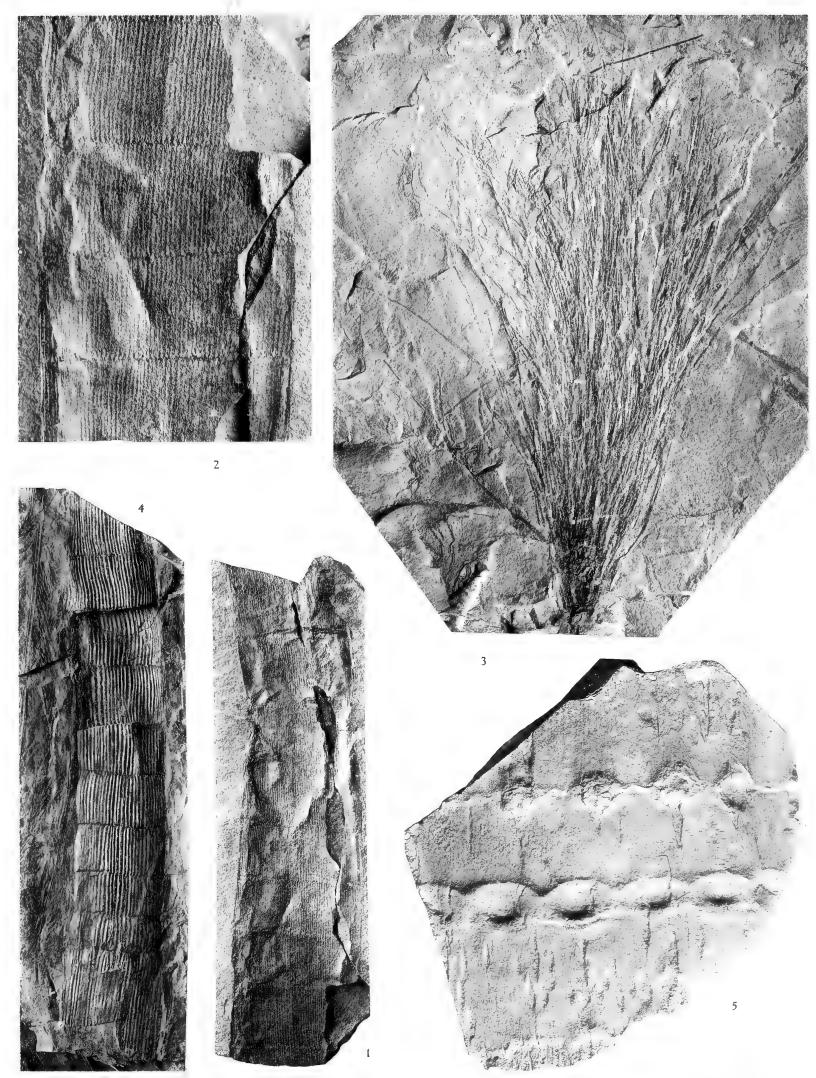


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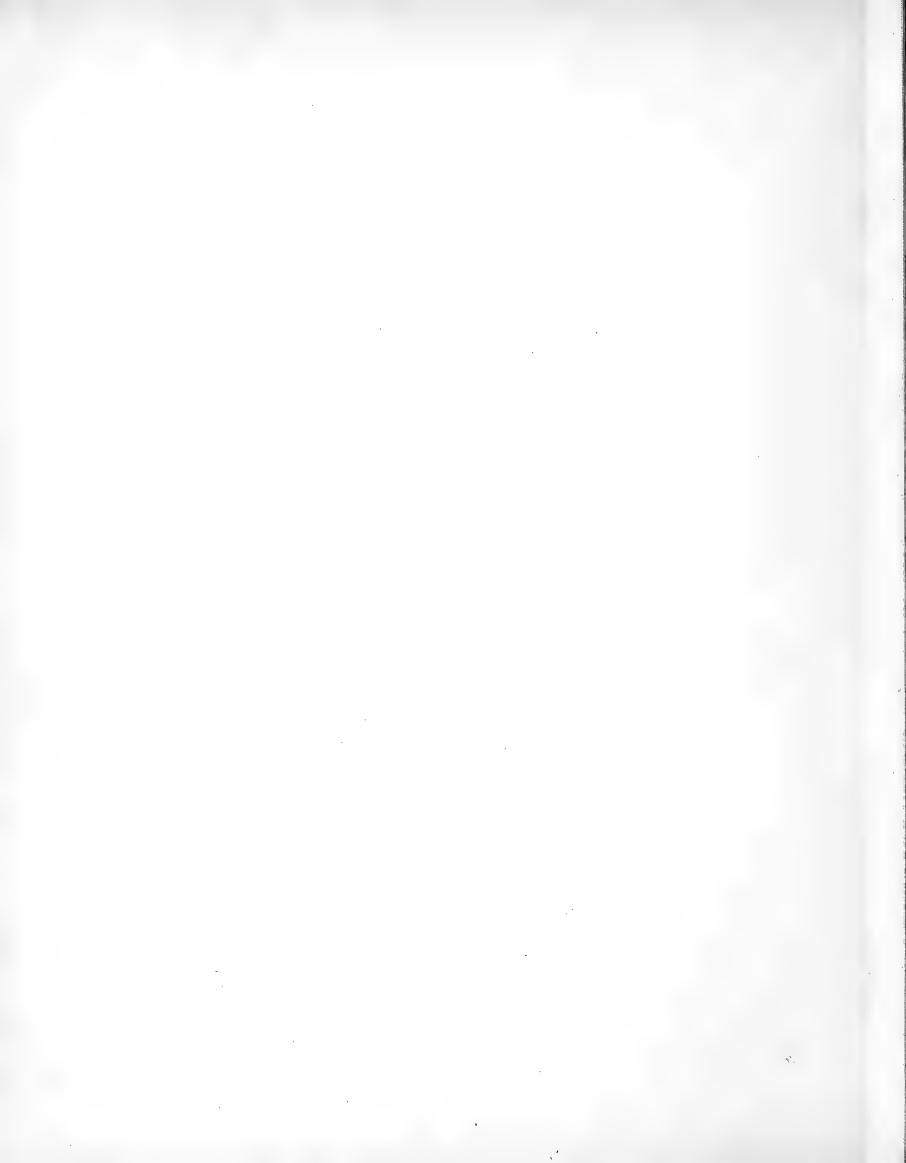


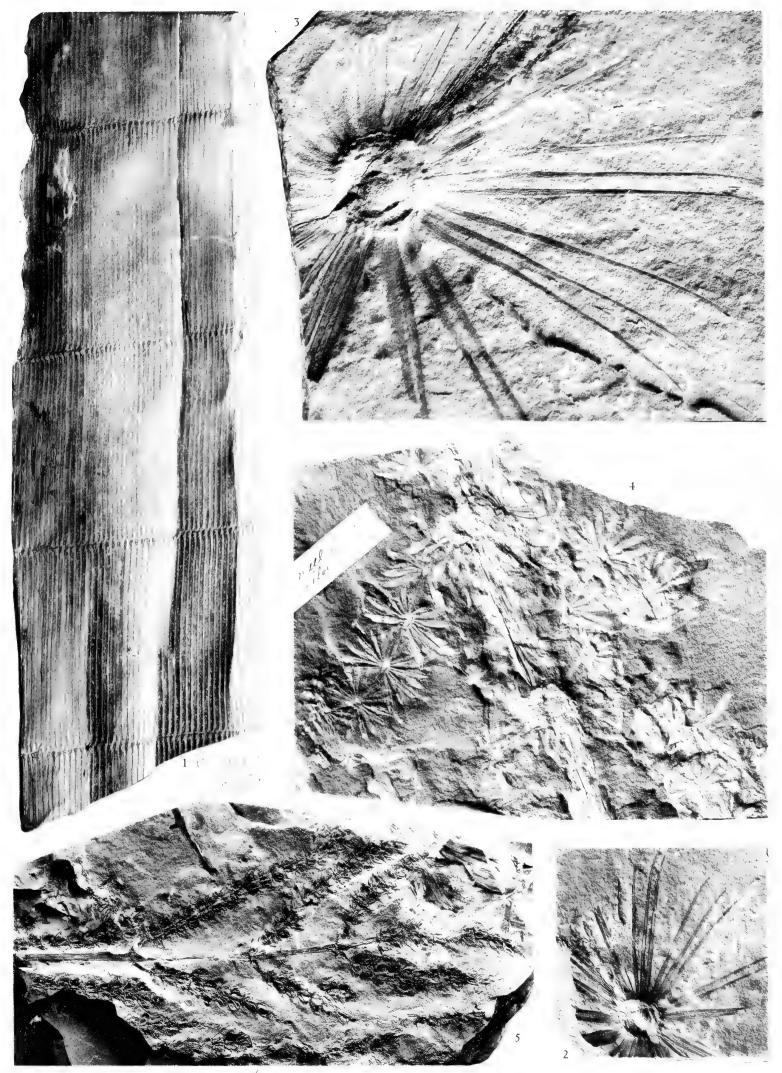


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